

(FILE 'HOME' ENTERED AT 18:36:10 ON 01 JUN 2003)

FILE 'CAPLUS' ENTERED AT 18:36:14 ON 01 JUN 2003

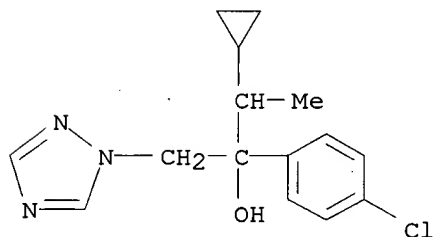
L1	304 S CYPROCONAZOLE
L2	3881 S TRIADIMEFON OR TRIADIMENOL OR BITERTANOL OR TEBUCONAZOLE OR
P	
L3	96 S L1 (P) L2
L4	72 S L1 (3A) L2
L5	41 S L1 (A) L2

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS  
RN 94361-06-5 REGISTRY  
CN 1H-1,2,4-Triazole-1-ethanol, .alpha.-(4-chlorophenyl)-.alpha.-(1-cyclopropylethyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Alto  
CN Alto 100  
CN Alto 100SL  
CN Atemi  
CN Atemi C  
CN **Cyproconazole**  
CN SAN 619F  
CN SN 108266  
FS 3D CONCORD  
DR 113096-99-4  
MF C15 H18 Cl N3 O  
CI COM  
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, MEDLINE,

MRCK\*,  
NIOSHTIC, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

314 REFERENCES IN FILE CA (1957 TO DATE)  
44 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
315 REFERENCES IN FILE CAPLUS (1957 TO DATE)

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x  
LOGINID:SSSPTA1209AXR  
PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2

*1-ca then*

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Sep 17	IMSworld Pharmaceutical Company Directory name change to PHARMASEARCH
NEWS	3	Oct 09	Korean abstracts now included in Derwent World Patents Index
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NEWS	9	Nov 19	New Search Capabilities USPATFULL and USPAT2
NEWS	10	Nov 19	TOXCENTER(SM) - new toxicology file now available on STN
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NEWS	13	Nov 30	Files VETU and VETB to have open access
NEWS	14	Dec 10	WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS	15	Dec 10	DGENE BLAST Homology Search
NEWS	16	Dec 17	WELDASEARCH now available on STN
NEWS	17	Dec 17	STANDARDS now available on STN
NEWS	18	Dec 17	New fields for DPCI
NEWS	19	Dec 19	CAS Roles modified
NEWS	20	Dec 19	1907-1946 data and page images added to CA and CPlus
NEWS	21	Jan 25	BLAST(R) searching in REGISTRY available in STN on the Web
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NEWS EXPRESS			February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
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NEWS LOGIN			Welcome Banner and News Items
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FILE 'HOME' ENTERED AT 09:05:20 ON 14 MAR 2002

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.15

0.15

FILE 'REGISTRY' ENTERED AT 09:05:34 ON 14 MAR 2002

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STRUCTURE FILE UPDATES: 12 MAR 2002 HIGHEST RN 400707-37-1

DICTIONARY FILE UPDATES: 12 MAR 2002 HIGHEST RN 400707-37-1

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/Z/CA/CAPLUS files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with /P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
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incorporating CAS Registry Numbers with the P indicator between 12/27/01  
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CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

=> s cyproconazole/cn

L1 1 CYPROCONAZOLE/CN

=> s tebuconazole/cn

L2 1 TEBUCONAZOLE/CN

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

8.32

8.47

FILE 'CAPLUS' ENTERED AT 09:06:23 ON 14 MAR 2002

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FILE COVERS 1907 - 14 Mar 2002 VOL 136 ISS 11  
FILE LAST UPDATED: 12 Mar 2002 (20020312/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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```
=> s l1 and l2 and industrial materials
      273 L1
      653 L2
      194179 INDUSTRIAL
      42 INDUSTRIALS
      194201 INDUSTRIAL
            (INDUSTRIAL OR INDUSTRIALS)
      1411418 MATERIALS
      3 MATERIALSES
      1411419 MATERIALS
            (MATERIALS OR MATERIALSES)
      946 INDUSTRIAL MATERIALS
            (INDUSTRIAL(W) MATERIALS)
L3      0 L1 AND L2 AND INDUSTRIAL MATERIALS
```

```
=> s l1 and l2 and leather
      273 L1
      653 L2
      38002 LEATHER
      4643 LEATHERS
      38709 LEATHER
            (LEATHER OR LEATHERS)
L4      2 L1 AND L2 AND LEATHER
```

```
=> d l4 1-2 all
```

```
L4  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2002 ACS
AN  1997:440126  CAPLUS
DN  127:46479
TI  Water-based, solvent- and emulsifier-free microbicidal compositions.
IN  Buschhaus, Hans-Ulrich; Exner, Otto; Kugler, Martin; Nagano, Yukihiro
PA  Bayer A.-G., Germany
SO  Ger. Offen., 12 pp.
```

CODEN: GWXXBX  
 DT Patent  
 LA German  
 IC ICM A01N043-653  
 ICS A01N043-50; A01N043-40  
 ICI A01N043-653, A01N043-50, A01N043-40  
 CC 5-2 (Agrochemical Bioregulators)  
 Section cross-reference(s): 43, 45

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19543477	A1	19970528	DE 1995-19543477	19951122
	CA 2238033	AA	19970529	CA 1996-2238033	19961111
	WO 9718713	A1	19970529	WO 1996-EP4919	19961111
	W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9675694	A1	19970611	AU 1996-75694	19961111
	EP 863709	A1	19980916	EP 1996-938169	19961111
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
	JP 2000500475	T2	20000118	JP 1997-519342	19961111
	BR 9611746	A	20000328	BR 1996-11746	19961111
PRAI	DE 1995-19543477	A	19951122		
	WO 1996-EP4919	W	19961111		
OS	MARPAT 127:46479				
AB	The title compns. comprise azole fungicide(s) (triadimefon, triadimenol, tebuconazole, hexaconazole, etc.), nitromethylene or related insecticide(s) and quaternary ammonium fungicide(s). The compns. are useful for the preservation of <b>leather</b> , wood and tech. materials.				
ST	microbicidal compn wood <b>leather</b> tech				
IT	Antibacterial agents				
	Fungicides				
	(industrial; water-based, solvent- and emulsifier-free microbicidal compns.)				
IT	Alkylbenzyltrimethylammonium chlorides				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(mixts. contg.; microbicidal compn. for preservation of <b>leather</b> , wood and tech. materials)				
IT	Quaternary ammonium compounds, biological studies				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(mixts. contg.; microbicidal compns. for preservation of <b>leather</b> , wood and tech. materials)				
IT	<b>Leather</b>				
	Wood preservatives				
	(water-based, solvent- and emulsifier-free microbicidal compns.)				
IT	191226-82-1				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(microbicidal compn. for preservation of <b>leather</b> , wood and tech. materials)				
IT	43121-43-3D, Triadimefon, mixts. contg. 55219-65-3D, Triadimenol, mixts. contg. 60207-31-0D, Azaconazole, mixts. contg. 60207-90-1D, Propiconazole, mixts. contg. 67747-09-5D, Prochloraz, mixts. contg. 79983-71-4D, Hexaconazole, mixts. contg. <b>94361-06-5D</b> , Cyproconazole, mixts. contg. 101336-63-4D, mixts. contg. <b>107534-96-3D</b> , Tebuconazole, mixts. contg. 120983-64-4D, mixts. contg. 130400-55-4D, mixts. contg. 131748-54-4D, mixts. contg. 131748-55-5D, mixts. contg. 136516-18-2D, mixts. contg. 138261-41-3D,				

Imidacloprid, mixts. contg. 160430-64-8D, mixts. contg. 172333-81-2D, mixts. contg.

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(microbicidal compns. for preservation of **leather**, wood and tech. materials)

IT 7173-51-5, Didecyldimethylammonium chloride

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(mixts. contg.; microbicidal compn. for preservation of **leather**, wood and tech. materials)

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 1997:33961 CAPLUS

DN 126:61838

TI Phenolic compound microbicides for processing hides and **leather**

IN Rother, Heinz-Joachim; Kugler, Martin; Rehbein, Hartmut

PA Bayer A.-G., Germany

SO Ger. Offen., 3 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM A01N031-08

ICS A01N043-84; A01N043-647; A01N043-52; A01N043-50

ICI A01N031-08, A01N043-84, A01N043-647, A01N043-52, A01N043-50

CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)

Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19517840	A1	19961121	DE 1995-19517840	19950516
	CA 2220992	AA	19961121	CA 1996-2220992	19960503
	WO 9636739	A1	19961121	WO 1996-EP1845	19960503
	W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9656935	A1	19961129	AU 1996-56935	19960503
	AU 704282	B2	19990415		
	EP 827553	A1	19980311	EP 1996-915014	19960503
	R: AT, BE, DE, ES, GB, IT, NL, SE, PT, FI				
	BR 9609081	A	19990202	BR 1996-9081	19960503
	ZA 9603849	A	19961121	ZA 1996-3849	19960515
	US 5888415	A	19990330	US 1997-952413	19971113
	US 6083414	A	20000704	US 1998-213584	19981217

PRAI DE 1995-19517840 A 19950516

WO 1996-EP1845 W 19960503

AB The microbicidal life is extended for phenolic compds. in the title process by addn. of triazoles, benzimidazoles, imidazoles, and(or) morpholine derivs.

ST phenolic compd microbicide hide **leather** processing; morpholine deriv stabilizer phenolic microbicide; imidazole deriv stabilizer phenolic microbicide; benzimidazole deriv stabilizer phenolic microbicide; triazole deriv stabilizer phenolic microbicide

IT Antibacterial agents

Hide

**Leather**

Stabilizing agents

(phenolic compd. microbicides contg. azoles and(or) morpholine derivs. as stabilizers for processing hides and **leather**)

IT 59-50-7, p-Chloro-m-cresol 90-43-7, o-Phenylphenol

RL: BAC (Biological activity or effector, except adverse); BUU (Biological

use, unclassified); BIOL (Biological study); USES (Uses)

(phenolic compd. microbicides contg. azoles and(or) morpholine derivs.  
as stabilizers for processing hides and **leather**)

IT 88-04-0 92-69-3, p-Phenylphenol 97-23-4, Dichlorophen 120-32-1,  
2-Benzyl-4-chlorophenol 122-99-6 580-51-8, m-Phenylphenol  
25154-55-6, Nitrophenol 25167-83-3, Tetrachlorophenol 25376-38-9,  
Tribromophenol

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(phenolic compd. microbicides contg. azoles and(or) morpholine derivs.  
as stabilizers for processing hides and **leather**)

IT 61-82-5, Amitrole 141-91-3D, 2,6-Dimethylmorpholine, C8-16-alkyl derivs.  
148-79-8 1593-77-7, Dodemorph 3878-19-1, Fuberidazole 17804-35-2,  
Benomyl 22916-47-8, Miconazole 23593-75-1, Canesten 27220-47-9,  
Econazole 27523-40-6, Isoconazole 35554-44-0, Imazalil 41083-11-8,  
Azocyclotin 43121-43-3, Triadimefon 55179-31-2, Bitertanol  
55219-65-3, Triadimenol 60207-31-0, Azaconazole 60207-90-1,  
Propiconazole 60628-96-8, Bifonazole 61318-90-9, Sulconazole  
66246-88-6, Penconazole 67564-91-4, Fenpropimorph 67747-09-5,  
Prochloraz 68694-11-1, Triflumizole 76608-88-3, Triapenthenol  
76674-05-0 76674-21-0, Flutriafol 76738-62-0 78613-35-1, Amorolfine  
79983-71-4, Hexaconazole 81412-43-3, Tridemorph 83657-22-1,  
Uniconazole 85509-19-9, Flusilazole 86598-92-7, Imibenconazole  
88671-89-0, Myclobutanil 91315-15-0, Aldimorph **94361-06-5**,  
Cyproconazole 101903-30-4, Pefurazoate 103112-36-3, Fenchlorazole  
**107534-96-3**, Tebuconazole 111566-22-4, Isozophos 112281-77-3,  
Tetraconazole 114369-43-6, Fenethanil 119006-77-8, Flutrimazole  
119446-68-3, Difenconazole 125116-23-6, Metconazole 129586-32-9  
131983-72-7, Triticonazole 133855-98-8, Epoxiconazole 136426-54-5,  
Fluquinconazole

RL: MOA (Modifier or additive use); USES (Uses)

(phenolic compd. microbicides contg. azoles and(or) morpholine derivs.  
as stabilizers for processing hides and **leather**)



Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1209AXR

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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FILE 'HOME' ENTERED AT 08:39:26 ON 14 MAR 2002

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.15

0.15

FILE 'REGISTRY' ENTERED AT 08:39:37 ON 14 MAR 2002

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and 1/23/02, are encouraged to re-run these strategies. Contact the  
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

=> s cyproconazole/cn

L1 1 CYPROCONAZOLE/CN

=> s tebuconazole/cn

L2 1 TEBUCONAZOLE/CN

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

8.64

8.79

FILE 'CAPLUS' ENTERED AT 08:40:46 ON 14 MAR 2002

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```
=> s l1 and l2
      273 L1
      653 L2
L3      147 L1 AND L2
```

```
=> d l3 1-5 all
```

```
L3  ANSWER 1 OF 147  CAPLUS  COPYRIGHT 2002 ACS
AN  2001:819022  CAPLUS
DN  136:33241
TI  Protective and systemic fungicides and inducer of resistance BTH on the
    control of fig rust
AU  Marchi, Carlos; de Resende, Mario L. V.; Chalfun, Nilton N. J.; Pozza,
    Edson A.
CS  Department de Fitopatologia, UFLA, Lavras, Brazil
SO  Summa Phytopathologica (2001), 27(2), 235-240
    CODEN: SUPHDV; ISSN: 0100-5405
PB  Grupo Paulista de Fitopatologia
DT  Journal
LA  Portuguese
CC  5-2 (Agrochemical Bioregulators)
AB  The objective of this study was to compare the efficacy of fungicides and
    of the chem. inducer of resistance BTH in fig rust (Phakopsora nishidiana)
    control. The expt. was conducted in the agricultural year of 1998/1999 in
    the orchard of UFLA/Lavras-MG, using the variety Roxo de Valinhos, with
    three years of age. Fig trees were submitted to the following treatments
    (doses of the a. i./ 100L of H2O): 1 - check; 2 - BTH 500 WG (100 g); 3 -
    BTH 500 WG (250 g); 4 - cyproconazole 100 SC (3 g); 5 - azoxystrobin 500 WG
    (8 g); 6 - tebuconazole 200 CE (15 g); 7 - mancozeb 445 SC (160 g); and 8
    - azoxystrobin 500 WG (8 g) alternated with copper oxychloride 350 PM (105
    g). The expt. was set in a randomized block design, with four
    replications and three plants per plot. Every fifteen days, evaluations
    of disease incidence and severity percentage of remaining leaves and
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measurements of the branches were carried out. Also the no. and total wt. of fruits from ten harvests were evaluated. The fungicide azoxystrobin was the more efficient for control of fig rust. The cyproconazole presented efficiency in the control of the disease, however it was phytotoxic. Relative control of the disease compared with tebuconazole was obtained by using mancozeb or azoxystrobin alternated with copper oxichloride. In relation to the possibility of inducing rust resistance in fig, it should be better studied by applying lower dosages, with no phytotoxic effects.

ST fungicide resistance inducer BTH fig Phakopsora  
IT Phakopsora nishidana  
(protective and systemic fungicides and inducer of resistance BTH for control of)  
IT Disease resistance, plant  
Fig (Ficus carica)  
Fungicides  
(protective and systemic fungicides and inducer of resistance BTH for control of fig rust)  
IT 135158-54-2, BTH  
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(inducer of resistance for control of fig rust)  
IT 1332-40-7, Copper oxychloride 8018-01-7, Mancozeb **94361-06-5**,  
Cyproconazole **107534-96-3**, Tebuconazole 131860-33-8,  
Azoxystrobin  
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(protective and systemic fungicides for control of fig rust)

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Abrahao, E; Revista Brasileira de Fruticultura 1990, V12(2), P12
- (2) Amorim, L; Manual de fitopatologia: principios e conceitos. 3 ed 1995, V1, P647
- (3) Azevedo, L; Manual de quantificacao de doencas de plantas 1997
- (4) Bahia Filho, A; Seiva 1970, V30, P34
- (5) Campbell, C; Introduction to plant disease epidemiology 1990
- (6) Chalfoun, S; Informe Agropecuario 1997, V18(188), P39
- (7) Chester, K; Quarterly Review of Biology 1933, V8, P275
- (8) De Vincenzo, M; Fitopatologia Brasileira 1997, V22(suplemento), P221
- (9) De Vincenzo, M; Horticultura Brasileira 1996, V14(1), P83
- (10) Euclides, R; Sistema para analises estatisticas e geneticas (SAEG) 1983
- (11) Galletti, S; Manual de Fitopatologia: doencas das plantas cultivadas, 3 ed 1997, V2, P400
- (12) Gorlach, J; Plant Cell 1996, V8, P629 MEDLINE
- (13) Guiducci, E; Fitopatologia Brasileira 1999, V24(suplemento), P289
- (14) Kimati, H; Manual de fitopatologia: doencas das plantas cultivadas 1980, V2, P319
- (15) Nogueira, E; Congresso Brasileiro de Fruticultura, 6 1981, V3, P739
- (16) Nogueira, E; Congresso Brasileiro de Fruticultura, 8 1986, V2, P281
- (17) Nogueira, E; Congresso Brasileiro de Fruticultura, 9 1987, V2, P459
- (18) Nogueira, E; Fitopatologia Brasileira 1991, V16(1), P112 CAPLUS
- (19) Nogueira, E; Fitopatologia Brasileira 1997, V22(suplemento), P290

L3 ANSWER 2 OF 147 CAPLUS COPYRIGHT 2002 ACS

AN 2001:780351 CAPLUS

DN 135:299954

TI Fungicidal compositions comprising methoxyiminoacetamide derivatives.

IN Wachendorff-Neumann, Ulrike; Seitz, Thomas; Gayer, Herbert; Heinemann, Ulrich; Krueger, Bernd-Wieland; Kraemer, Wolfgang; Assmann, Lutz

PA Bayer A.-G., Germany

SO Ger. Offen., 40 pp.

CODEN: GWXXBX

DT Patent

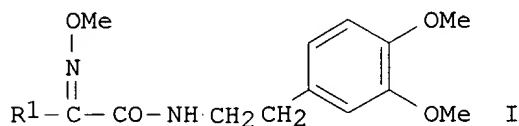
LA German

IC ICM A01N035-10  
ICS A01N043-653; A01N039-02; A01N059-16; A01N047-10; A01N043-828;  
A01N043-88

CC 5-2 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10019758	A1	200111025	DE 2000-10019758	20000420
	WO 2001080641	A2	20011101	WO 2001-EP4042	20010409
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,				
	HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,				
	LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,				
	RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,				
	VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	DE 2000-10019758	A	20000420		
OS	MARPAT 135:299954				
GI					



AB Fungicidal compns. comprise methoxyiminoacetamide derivs. I (R1 = fluorine-, chlorine-, bromine-, Me-, Et-, Pr- iso-Pr-, Bu-, iso-Bu-, tert-Bu-, methoxy-, ethoxy- or phenoxy-substituted or unsubstituted Ph, 2-naphthyl, 1,2,3,4-tetrahydronaphthyl, indanyl, 2-benzofuranyl, 2-benzothienyl, 2-thienyl or 2-furanyl) and any of known 58 fungicides.

ST fungicide methoxyiminoacetamide deriv mixts

IT Fungicides  
(compns. comprising methoxyiminoacetamide derivs.)

IT 133-06-2D, Captan, mixts. with methoxyiminoacetamide derivs. 133-07-3D, Folpet, mixts. with methoxyiminoacetamide derivs. 137-26-8D, Thiram, mixts. with methoxyiminoacetamide derivs. 731-27-1D, mixts. with methoxyiminoacetamide derivs. 1085-98-9D, mixts. with methoxyiminoacetamide derivs. 1897-45-6D, Chlorothalonil, mixts. with methoxyiminoacetamide derivs. 8018-01-7D, Mancozeb, mixts. with methoxyiminoacetamide derivs. 12071-83-9D, Propineb, mixts. with methoxyiminoacetamide derivs. 12122-67-7D, Zineb, mixts. with methoxyiminoacetamide derivs. 12427-38-2D, Maneb, mixts. with methoxyiminoacetamide derivs. 13598-36-2D, Phosphonic acid, mixts. with methoxyiminoacetamide derivs. 24579-73-5D, Propamocarb, mixts. with methoxyiminoacetamide derivs. 32809-16-8D, Procymidone, mixts. with methoxyiminoacetamide derivs. 36734-19-7D, Iprodione, mixts. with methoxyiminoacetamide derivs. 39148-24-8D, Fosetyl-Al, mixts. with methoxyiminoacetamide derivs. 53112-28-0D, mixts. with methoxyiminoacetamide derivs. 57837-19-1D, Metalaxyl, mixts. with methoxyiminoacetamide derivs. 57966-95-7D, Cymoxanil, mixts. with methoxyiminoacetamide derivs. 60207-90-1D, Propiconazole, mixts. with methoxyiminoacetamide derivs. 66246-88-6D, Penconazole, mixts. with methoxyiminoacetamide derivs. 67747-09-5D, Prochloraz, mixts. with methoxyiminoacetamide derivs. 70630-17-0D, Metalaxyl M, mixts. with methoxyiminoacetamide derivs. 71626-11-4D, Benalaxyl, mixts. with methoxyiminoacetamide derivs. 77732-09-3D, Oxadixyl, mixts. with

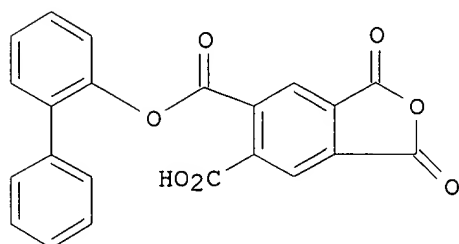
methoxyiminoacetamide derivs. 79622-59-6D, Fluazinam, mixts. with  
methoxyiminoacetamide derivs. 79983-71-4D, Hexaconazole, mixts. with  
methoxyiminoacetamide derivs. 85509-19-9D, Flusilazole, mixts. with  
methoxyiminoacetamide derivs. 87130-20-9D, Diethofencarb, mixts. with  
methoxyiminoacetamide derivs. 88671-89-0D, Myclobutanil, mixts. with  
methoxyiminoacetamide derivs. **94361-06-5D**, Cyproconazole, mixts.  
with methoxyiminoacetamide derivs. 104030-54-8D, Carpropamid, mixts.  
with methoxyiminoacetamide derivs. **107534-96-3D**, Tebuconazole,  
mixts. with methoxyiminoacetamide derivs. 110488-70-5D, Dimethomorph,  
mixts. with methoxyiminoacetamide derivs. 112281-77-3D, Tetraconazole,  
mixts. with methoxyiminoacetamide derivs. 114369-43-6D, Fenbuconazole,  
mixts. with methoxyiminoacetamide derivs. 117428-22-5D, Picoxystrobin,  
mixts. with methoxyiminoacetamide derivs. 118134-30-8D, Spiroxamine,  
mixts. with methoxyiminoacetamide derivs. 119446-68-3D, Difenoconazole,  
mixts. with methoxyiminoacetamide derivs. 120116-88-3D,  
Cyamidazosulfamid, mixts. with methoxyiminoacetamide derivs.  
121552-61-2D, mixts. with methoxyiminoacetamide derivs. 124495-18-7D,  
Quinoxifen, mixts. with methoxyiminoacetamide derivs. 126833-17-8D,  
Fenhexamid, mixts. with methoxyiminoacetamide derivs. 131341-86-1D,  
Fludioxonil, mixts. with methoxyiminoacetamide derivs. 131752-26-6D,  
mixts. with methoxyiminoacetamide derivs. 131807-57-3D, Famoxadone,  
mixts. with methoxyiminoacetamide derivs. 131860-33-8D, Azoxystrobin,  
mixts. with methoxyiminoacetamide derivs. 133855-98-8D, Epoxiconazole,  
mixts. with methoxyiminoacetamide derivs. 135158-54-2D,  
Acibenzolar-S-methyl, mixts. with methoxyiminoacetamide derivs.  
138261-41-3D, Imidacloprid, mixts. with methoxyiminoacetamide derivs.  
140923-17-7D, Iprovalicarb, mixts. with methoxyiminoacetamide derivs.  
141517-21-7D, Trifloxystrobin, mixts. with methoxyiminoacetamide derivs.  
143390-89-0D, Kresoxim-methyl, mixts. with methoxyiminoacetamide derivs.  
149708-54-3D, mixts. with methoxyiminoacetamide derivs. 156052-68-5D,  
Zoxamide, mixts. with methoxyiminoacetamide derivs. 161326-34-7D,  
Fenamidone, mixts. with methoxyiminoacetamide derivs. 162650-77-3D,  
Ethaboxam, mixts. with methoxyiminoacetamide derivs. 172524-76-4D,  
mixts. with methoxyiminoacetamide derivs. 172719-88-9D, mixts. with  
methoxyiminoacetamide derivs. 175013-18-0D, mixts. with  
methoxyiminoacetamide derivs. 178928-70-6D, mixts. with  
methoxyiminoacetamide derivs. 181624-76-0D, mixts. contg.  
181627-13-4D, mixts. contg. 184870-42-6D, mixts. with  
methoxyiminoacetamide derivs. 185336-79-2D, mixts. with  
methoxyiminoacetamide derivs. 188027-78-3D, mixts. with  
methoxyiminoacetamide derivs. 188425-85-6D, mixts. with  
methoxyiminoacetamide derivs. 189892-69-1D, mixts. with  
methoxyiminoacetamide derivs. 193740-76-0D, mixts. with  
methoxyiminoacetamide derivs. 198758-59-7D, mixts. with  
methoxyiminoacetamide derivs. 251579-08-5D, mixts. with  
methoxyiminoacetamide derivs. 345206-00-0D, mixts. with  
methoxyiminoacetamide derivs. 367262-88-2D, mixts. contg.  
367262-94-0D, mixts. contg. 367262-97-3D, mixts. contg. 367263-03-4D,  
mixts. contg.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(fungicidal compns.)

L3 ANSWER 3 OF 147 CAPLUS COPYRIGHT 2002 ACS  
AN 2001:735421 CAPLUS  
DN 135:257037  
TI Preparation of arylisocyanates and arylhydrides and derivatives thereof  
as biocidal compounds  
IN Bach, Sylvie; Chaumat, Gilles; Gandini, Alessandro; Seigle Murandi,  
Francoise; Sage, Lucile  
PA Commissariat A L'Energie Atomique, Fr.  
SO Fr. Demande, 40 pp.  
CODEN: FRXXBL

DT Patent  
 LA French  
 IC ICM A01N043-653  
 ICS A01N043-08; A01N025-08; B27K003-38; D21H021-36  
 CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2802771	A1	20010629	FR 1999-16474	19991224
OS	CASREACT 135:257037; MARPAT 135:257037				
GI					



IV

- AB Title compds. OCN-R-NH-CO-X-A (I), Anh-R'-CO-X-A (II) and Ep-R'-CH(OH)-X-A (III) [R, R' = org. fragments; Anh = anhydride; Ep = epoxide; X-A is a residue of a biocidal mol. composed of A-XH] were prepd. For instance 2-phenylphenol was reacted with 1,2,4,5-Benzenetetracarboxylic acid anhydride (THF, DBTL, DMAP, 65.degree.C, 15 min) to give IV. Examples of I and II had antifungal activity estd. at 0.01 to 1 nM. Substrates such as wood, paper, textiles, etc. can be covalently modified by reaction to I, II and III and will exhibit antifungal properties (2 examples, no data).
- ST arylisocyanate arylanhydride biocide antifungal insecticide prepn;  
 triazole biphenyl antifungal prepn
- IT Antibacterial agents  
 Fungicides  
 Insecticides  
 Wood preservatives  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT 361391-49-3P 361391-50-6P 361391-51-7DP, polymer bound  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT 77-58-7 619-60-3, DMAP  
 RL: CAT (Catalyst use); USES (Uses)  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT 75-09-2, Dichloromethane, uses 109-99-9, Tetrahydrofuran, uses 110-86-1, Pyridine, uses  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT 107534-96-3, Tebuconazole

RL: RCT (Reactant); RACT (Reactant or reagent)  
(prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and  
derivs. thereof as biocidal compds.)

IT 89-32-7 90-43-7, 2-Hydroxybiphenyl 104-49-4, 1,4-Phenylene  
diisocyanate **94361-06-5**, Cyproconazole

RL: RCT (Reactant); RACT (Reactant or reagent)  
(reactant; prepn. of (hetero)aryl-alkyl-amido-aryl-  
isocyanates/anhydrides and derivs. thereof as biocidal compds.)

L3 ANSWER 4 OF 147 CAPLUS COPYRIGHT 2002 ACS

AN 2001:679077 CAPLUS

DN 136:18051

TI Factors affecting diseases of winter wheat in England and Wales, 1989-98

AU Hardwick, N. V.; Jones, D. R.; Slough, J. E.

CS Central Science Laboratory, York, YO41 1LZ, UK

SO Plant Pathology (2001), 50(4), 453-462

CODEN: PLPAAD; ISSN: 0032-0862

PB Blackwell Science Ltd.

DT Journal

LA English

CC 11-5 (Plant Biochemistry)

AB Samples from 360 to 450 randomly selected winter wheat crops in England and Wales were collected annually during the milky ripe development stages (GS 73-75) from 1989 to 1998. The no. of samples from each region was proportional to the area of winter wheat grown. The percentage area affected by disease was assessed on the top two leaves and the ear, and the incidence and severity of stem base diseases were also recorded. An est. of the percentage area of the crop affected by barley yellow dwarf virus (BYDV) and take-all (*Gaeumannomyces graminis*) was made in the field. Septoria leaf blotch (*Septoria tritici*, teleomorph *Mycosphaerella graminicola*) was the major foliar disease recorded, with an av. max. severity of 7.cntdot.8% of the area of leaf 2 affected in 1998. Eyespot (*Tapesia* spp.) was the major stem base disease, with the highest incidence of stems falling into the damaging moderate plus severe categories (18.cntdot.9%) in 1998. Levels of powdery mildew (*Blumeria graminis*) showed a decline from 0.cntdot.4% of the area of leaf 2 in 1989 to 0.cntdot.1% in 1998. This fall was assocd. with a redn. in the proportion of disease-susceptible cultivars grown. There were significant regional differences in levels of septoria leaf blotch, brown rust (*Puccinia recondita*), eyespot, sharp eyespot (*Rhizoctonia cerealis*) and BYDV. The percentage of crops treated with a fungicide rose from 96% in 1989 to 98% in 1998 and the mean no. of spray applications per crop rose during this period from 2.cntdot.1 to 2.cntdot.5. A higher proportion of crops was treated with fungicides between the end of tillering and fifth node detectable (GS 24-35) than around flag leaf emergence (GS 36-48) or ear emergence (GS 49-71). Prior to 1994, the majority of late fungicide sprays was applied at, or after, ear emergence, but from 1994, the majority was applied around flag leaf emergence. The value and socioeconomic implications of the results are discussed.

ST wheat disease England Wales fungicide

IT Winter wheat

(disease; causes and factors affecting diseases of winter wheat in  
England and Wales)

IT Fungicides

(fungicides for control of winter wheat diseases in England and Wales)

IT *Puccinia recondita*

(winter wheat brown rust diseases in England and Wales caused by)

IT Barley yellow dwarf virus

*Mycosphaerella graminicola*

(winter wheat diseases in England and Wales caused by)

IT *Tapesia*

(winter wheat eyespot diseases in England and Wales caused by)



IT Septoria tritici  
(winter wheat leaf-blotch diseases in England and Wales caused by)

IT Blumeria graminis  
(winter wheat powdery mildew diseases in England and Wales caused by)

IT Ceratobasidium cereale  
(winter wheat sharp eyespot diseases in England and Wales caused by)

IT Gaeumannomyces graminis  
(winter wheat take-all diseases in England and Wales caused by)

IT 110-91-8, Morpholine, biological studies 10605-21-7, Carbendazim  
17804-35-2, Benomyl 43121-43-3, Triadimefon 55219-65-3, Triadimenol  
60207-90-1, Propiconazole 67306-00-7, Fenpropidin 67564-91-4,  
Fenpropimorph 67747-09-5, Prochloraz 76674-21-0, Flutriafol  
81412-43-3, Tridemorph 85509-19-9, Flusilazole **94361-06-5**,  
Cyproconazole **107534-96-3**, Tebuconazole 114369-43-6,  
Fenbuconazole 116255-48-2, Bromuconazole 119446-68-3, Difenconazole  
131860-33-8, Azoxystrobin 133855-98-8, Epoxiconazole 143390-89-0,  
Kresoxim-methyl  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(fungicides for control of winter wheat diseases in England and Wales)

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Anonymous; <http://www.cru.uea.ac.uk/~mikeh/datasets/uk/engwales.htm> 2001
- (2) Asher, M; Plant Health and the Single European Market (BCPC Monograph No 54) 1993, P111
- (3) Bayles, R; UK Cereal Pathogen Virulence Survey, 1998 Annual Report 1999, P27
- (4) Cavelier, A; Proceedings of the British Crop Protection Conference:Pests and Diseases 1998 1998, P1023
- (5) Clare, R; Proceedings of the British Crop Protection Conference:Pests and Diseases 1986 1986, P165 CAPLUS
- (6) Clarkson, J; Plant Pathology 1981, V30, P125
- (7) Clarkson, J; Proceedings of the Brighton Crop Protection Conference:Pests and Diseases 1981 1981, P223
- (8) Colbach, N; European Journal of Plant Pathology 1998, V104, P37
- (9) Cook, R; Costs and Benefits of Disease Control 1988, P3
- (10) Cook, R; Crop Protection 1991, V10, P504
- (11) Cook, R; Plant Diseases:Infection, Damage and Loss 1984, P237
- (12) Daamen, R; Netherlands Journal of Plant Pathology 1990, V96, P251
- (13) Hardwick, N; Aspects of Applied Biology 1996, V45, P261
- (14) Hardwick, N; Plant Pathology 1998, V47, P379
- (15) Hardwick, N; Proceedings of the 13th Triennial Conference, European Association of Potato Research 1996 1996, P631
- (16) Hardwick, N; Proceedings of the 6th International Congress of Plant Pathology, 1993 1993, P116
- (17) Hardwick, N; Proceedings of the Brighton Crop Protection Conference, Pests and Diseases, 2000 2000, P647
- (18) Hardwick, N; Proceedings of the Crop Protection in Northern Britain 1993 1993, P109
- (19) Hardwick, N; Proceedings, Quatrieme Conference Internationale sur les Maladies des Plantes 1994 1994, P1163
- (20) Jones, D; Plant Pathology 1994, V43, P831
- (21) Kendall, M; Rank Correlation Methods, 3rd edn 1962
- (22) King, J; Crop Loss Assessment 1980, P124
- (23) King, J; Plant Pathology 1977, V21, P8
- (24) Maff; Managed Disease Control 1984
- (25) Maff; Manual of Plant Growth Stages and Disease Assessment Keys 1976
- (26) Maff; <http://www.maff.gov.uk/farm/agendtwo/capref/execsumm.htm> 1999
- (27) Moore, W; Scientific Horticulture 1946, V9, P85
- (28) Morrall, R; Canadian Plant Disease Survey 1999, V79, P1
- (29) National Institute Of Agricultural Botany; Cereal Variety Handbook 1998
- (30) Paveley, N; Plant Pathology 2000, V49, P748
- (31) Polley, R; Annals of Applied Biology 1991, V119, P1

- (32) Polley, R; Annals of Applied Biology 1993, V123, P287
- (33) Priestley, R; Journal of the National Institute of Agricultural Botany 1980, V15, P215
- (34) Scott, P; Annals of Applied Biology 1974, V78, P269
- (35) Siegel, S; Non-Parametric Statistics for the Behavioural Sciences 1956
- (36) Stevens, D; Aspects of Applied Biology, 50, Optimising Cereal Inputs:its Scientific Basis 1997, P279
- (37) Thomas, M; Proceedings of the 7th International Congress of Plant Pathology, 1998 1998
- (38) Turner, J; Investigations of Fusarium Infection and Mycotoxin Levels in Harvested Wheat Grain (1998), Project report no 207 1999
- (39) Turner, J; Proceedings of the 9th International Rapeseed Congress 1995 1995, P640
- (40) Zadoks, J; Weed Research 1974, V14, P415

L3 ANSWER 5 OF 147 CAPLUS COPYRIGHT 2002 ACS

AN 2001:663606 CAPLUS

DN 135:222833

TI Fungicidal and algicidal compositions containing isothiazolinones and triazoles

IN Kameda, Koji; Tanaka, Shoji

PA Takeda Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A01N043-80

ICS A01N043-653; C08K005-3472; C08K005-46; C08L101-00

CC 5-2 (Agrochemical Bioregulators)

Section cross-reference(s): 42

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----		-----	-----	-----
PI	JP 2001247414	A2	20010911	JP 2000-394071	20001226
PRAI	JP 1999-370659	A	19991227		
OS	MARPAT 135:222833				
AB	Fungicidal and algicidal compns. with superior effectiveness and superior heat resistance contain isothiazolinones and triazoles. These compns. can be applied to various industrial products. Thus, 2-n-octyl-4-isothiazolin-3-one and tebuconazole were mixed at a 7:3 wt. ratio in Methyl Carbitol to obtain a homogeneous soln. that prevented fungal growth in a coating mold resistant test (JIS Z-2911).				
ST	isothiazolinone triazole industrial fungicide algicide; coating mold resistance isothiazolinone triazole fungicide				
IT	Coating materials (industrial fungicides and algicides contg. isothiazolinones and triazoles for)				
IT	Algicides Fungicides (industrial; contg. isothiazolinones and triazoles)				
IT	358973-06-5	358973-07-6	358973-08-7	358973-09-8	
	RL: BAC (Biological activity or effector, except adverse); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (industrial fungicide and algicide)				
IT	288-88-0D, 1H-1,2,4-Triazole, derivs., mixts. with isothiazolinones 1003-07-2D, 4-Isouthiazolin-3-one, derivs., mixts. with triazoles 26530-20-1D, 2-n-Octyl-4-isothiazolin-3-one, mixts. with triazoles 60207-31-0D, Azaconazole, mixts. with isothiazolinones 60207-90-1D, Propiconazole, mixts. with isothiazolinones 64359-81-5D, 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one, mixts. with triazoles <b>94361-06-5D</b> , Cyproconazole, mixts. with isothiazolinones <b>107534-96-3D</b> , Tebuconazole, mixts. with isothiazolinones				

RL: BAC (Biological activity or effector, except adverse); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(industrial fungicides and algicides)

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to PHARMASEARCH  
NEWS 3 Oct 09 Korean abstracts now included in Derwent World Patents  
Index  
NEWS 4 Oct 09 Number of Derwent World Patents Index updates increased  
NEWS 5 Oct 15 Calculated properties now in the REGISTRY/ZREGISTRY File  
NEWS 6 Oct 22 Over 1 million reactions added to CASREACT  
NEWS 7 Oct 22 DGENE GETSIM has been improved  
NEWS 8 Oct 29 AAASD no longer available  
NEWS 9 Nov 19 New Search Capabilities USPATFULL and USPAT2  
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NEWS 11 Nov 29 COPPERLIT now available on STN  
NEWS 12 Nov 29 DWPI revisions to NTIS and US Provisional Numbers  
NEWS 13 Nov 30 Files VETU and VETB to have open access  
NEWS 14 Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002  
NEWS 15 Dec 10 DGENE BLAST Homology Search  
NEWS 16 Dec 17 WELDASEARCH now available on STN  
NEWS 17 Dec 17 STANDARDS now available on STN  
NEWS 18 Dec 17 New fields for DPCI  
NEWS 19 Dec 19 CAS Roles modified  
NEWS 20 Dec 19 1907-1946 data and page images added to CA and Cplus  
NEWS 21 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web  
NEWS 22 Jan 25 Searching with the P indicator for Preparations  
NEWS 23 Jan 29 FSTA has been reloaded and moves to weekly updates  
NEWS 24 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update  
frequency  
NEWS 25 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02  
NEWS 26 Mar 08 Gene Names now available in BIOSIS  
  
NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,  
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),  
AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002  
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ENTRY	SESSION
0.15	0.15

FULL ESTIMATED COST

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DICTIONARY FILE UPDATES: 12 MAR 2002 HIGHEST RN 400707-37-1

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Please note that search-term pricing does apply when  
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Calculated physical property data is now available. See HELP PROPERTIES  
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Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/Z/CA/CAPLUS files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with /P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAPLUS files  
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worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

=> s cyproconazole/cn  
L1 1 CYPROCONAZOLE/CN

=> s tebuconazole/cn  
L2 1 TEBUCONAZOLE/CN

=> file caplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
8.32	8.47

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 09:06:23 ON 14 MAR 2002  
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FILE COVERS 1907 - 14 Mar 2002 VOL 136 ISS 11  
FILE LAST UPDATED: 12 Mar 2002 (20020312/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

```
=> s l1 and l2 and industrial materials
      273 L1
      653 L2
      194179 INDUSTRIAL
      42 INDUSTRIALS
      194201 INDUSTRIAL
          (INDUSTRIAL OR INDUSTRIALS)
      1411418 MATERIALS
      3 MATERIALSESES
      1411419 MATERIALS
          (MATERIALS OR MATERIALSESES)
      946 INDUSTRIAL MATERIALS
          (INDUSTRIAL(W)MATERIALS)
L3      0 L1 AND L2 AND INDUSTRIAL MATERIALS
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=> s l1 and l2 and leather
      273 L1
      653 L2
      38002 LEATHER
      4643 LEATHERS
      38709 LEATHER
          (LEATHER OR LEATHERS)
L4      2 L1 AND L2 AND LEATHER
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=> d l4 1-2 all
```

```
L4  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2002 ACS
AN  1997:440126  CAPLUS
DN  127:46479
TI  Water-based, solvent- and emulsifier-free microbicidal compositions.
IN  Buschhaus, Hans-Ulrich; Exner, Otto; Kugler, Martin; Nagano, Yukihiro
PA  Bayer A.-G., Germany
SO  Ger. Offen., 12 pp.
```

CODEN: GWXXBX  
 DT Patent  
 LA German  
 IC ICM A01N043-653  
 ICS A01N043-50; A01N043-40  
 ICI A01N043-653, A01N043-50, A01N043-40  
 CC 5-2 (Agrochemical Bioregulators)  
 Section cross-reference(s): 43, 45

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19543477	A1	19970528	DE 1995-19543477	19951122
	CA 2238033	AA	19970529	CA 1996-2238033	19961111
	WO 9718713	A1	19970529	WO 1996-EP4919	19961111
	W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9675694	A1	19970611	AU 1996-75694	19961111
	EP 863709	A1	19980916	EP 1996-938169	19961111
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
	JP 2000500475	T2	20000118	JP 1997-519342	19961111
	BR 9611746	A	20000328	BR 1996-11746	19961111
PRAI	DE 1995-19543477	A	19951122		
	WO 1996-EP4919	W	19961111		
OS	MARPAT 127:46479				
AB	The title compns. comprise azole fungicide(s) (triadimefon, triadimenol, tebuconazole, hexaconazole, etc.), nitromethylene or related insecticide(s) and quaternary ammonium fungicide(s). The compns. are useful for the preservation of <b>leather</b> , wood and tech. materials.				
ST	microbicidal compn wood <b>leather</b> tech				
IT	Antibacterial agents				
	Fungicides				
	(industrial; water-based, solvent- and emulsifier-free microbicidal compns.)				
IT	Alkylbenzyltrimethylammonium chlorides				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(mixts. contg.; microbicidal compn. for preservation of <b>leather</b> , wood and tech. materials)				
IT	Quaternary ammonium compounds, biological studies				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(mixts. contg.; microbicidal compns. for preservation of <b>leather</b> , wood and tech. materials)				
IT	<b>Leather</b>				
	Wood preservatives				
	(water-based, solvent- and emulsifier-free microbicidal compns.)				
IT	191226-82-1				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(microbicidal compn. for preservation of <b>leather</b> , wood and tech. materials)				
IT	43121-43-3D, Triadimefon, mixts. contg. 55219-65-3D, Triadimenol, mixts. contg. 60207-31-0D, Azaconazole, mixts. contg. 60207-90-1D, Propiconazole, mixts. contg. 67747-09-5D, Prochloraz, mixts. contg. 79983-71-4D, Hexaconazole, mixts. contg. <b>94361-06-5D</b> , Cyproconazole, mixts. contg. 101336-63-4D, mixts. contg. <b>107534-96-3D</b> , Tebuconazole, mixts. contg. 120983-64-4D, mixts. contg. 130400-55-4D, mixts. contg. 131748-54-4D, mixts. contg. 131748-55-5D, mixts. contg. 136516-18-2D, mixts. contg. 138261-41-3D,				

Imidacloprid, mixts. contg. 160430-64-8D, mixts. contg. 172333-81-2D, mixts. contg.

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(microbicidal compns. for preservation of **leather**, wood and tech. materials)

IT 7173-51-5, Didecyldimethylammonium chloride

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(mixts. contg.; microbicidal compn. for preservation of **leather**, wood and tech. materials)

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 1997:33961 CAPLUS

DN 126:61838

TI Phenolic compound microbicides for processing hides and **leather**

IN Rother, Heinz-Joachim; Kugler, Martin; Rehbein, Hartmut

PA Bayer A.-G., Germany

SO Ger. Offen., 3 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM A01N031-08

ICS A01N043-84; A01N043-647; A01N043-52; A01N043-50

ICI A01N031-08, A01N043-84, A01N043-647, A01N043-52, A01N043-50

CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)

Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19517840	A1	19961121	DE 1995-19517840	19950516
	CA 2220992	AA	19961121	CA 1996-2220992	19960503
	WO 9636739	A1	19961121	WO 1996-EP1845	19960503
	W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9656935	A1	19961129	AU 1996-56935	19960503
	AU 704282	B2	19990415		
	EP 827553	A1	19980311	EP 1996-915014	19960503
	R: AT, BE, DE, ES, GB, IT, NL, SE, PT, FI				
	BR 9609081	A	19990202	BR 1996-9081	19960503
	ZA 9603849	A	19961121	ZA 1996-3849	19960515
	US 5888415	A	19990330	US 1997-952413	19971113
	US 6083414	A	20000704	US 1998-213584	19981217
PRAI	DE 1995-19517840	A	19950516		
	WO 1996-EP1845	W	19960503		
AB	The microbicidal life is extended for phenolic compds. in the title process by addn. of triazoles, benzimidazoles, imidazoles, and(or) morpholine derivs.				
ST	phenolic compd microbicide hide <b>leather</b> processing; morpholine deriv stabilizer phenolic microbicide; imidazole deriv stabilizer phenolic microbicide; benzimidazole deriv stabilizer phenolic microbicide; triazole deriv stabilizer phenolic microbicide				
IT	Antibacterial agents				
	Hide				
	<b>Leather</b>				
	Stabilizing agents				
	(phenolic compd. microbicides contg. azoles and(or) morpholine derivs. as stabilizers for processing hides and <b>leather</b> )				
IT	59-50-7, p-Chloro-m-cresol 90-43-7, o-Phenylphenol				
	RL: BAC (Biological activity or effector, except adverse); BUU (Biological				



use, unclassified); BIOL (Biological study); USES (Uses)  
(phenolic compd. microbicides contg. azoles and(or) morpholine derivs.  
as stabilizers for processing hides and **leather**)

IT 88-04-0 92-69-3, p-Phenylphenol 97-23-4, Dichlorophen 120-32-1,  
2-Benzyl-4-chlorophenol 122-99-6 580-51-8, m-Phenylphenol  
25154-55-6, Nitrophenol 25167-83-3, Tetrachlorophenol 25376-38-9,  
Tribromophenol

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(phenolic compd. microbicides contg. azoles and(or) morpholine derivs.  
as stabilizers for processing hides and **leather**)

IT 61-82-5, Amitrole 141-91-3D, 2,6-Dimethylmorpholine, C8-16-alkyl derivs.  
148-79-8 1593-77-7, Dodemorph 3878-19-1, Fuberidazole 17804-35-2,  
Benomyl 22916-47-8, Miconazole 23593-75-1, Canesten 27220-47-9,  
Econazole 27523-40-6, Isoconazole 35554-44-0, Imazalil 41083-11-8,  
Azocyclotin 43121-43-3, Triadimefon 55179-31-2, Bitertanol  
55219-65-3, Triadimenol 60207-31-0, Azaconazole 60207-90-1,  
Propiconazole 60628-96-8, Bifonazole 61318-90-9, Sulconazole  
66246-88-6, Penconazole 67564-91-4, Fenpropimorph 67747-09-5,  
Prochloraz 68694-11-1, Triflumizole 76608-88-3, Triapenthenol  
76674-05-0 76674-21-0, Flutriafol 76738-62-0 78613-35-1, Amorolfine  
79983-71-4, Hexaconazole 81412-43-3, Tridemorph 83657-22-1,  
Uniconazole 85509-19-9, Flusilazole 86598-92-7, Imibenconazole  
88671-89-0, Myclobutanil 91315-15-0, Aldimorph **94361-06-5**,  
Cyproconazole 101903-30-4, Pefurazoate 103112-36-3, Fenchlorazole  
**107534-96-3**, Tebuconazole 111566-22-4, Isozophos 112281-77-3,  
Tetraconazole 114369-43-6, Fenethanil 119006-77-8, Flutrimazole  
119446-68-3, Difenconazole 125116-23-6, Metconazole 129586-32-9  
131983-72-7, Triticonazole 133855-98-8, Epoxiconazole 136426-54-5,  
Fluquinconazole

RL: MOA (Modifier or additive use); USES (Uses)

(phenolic compd. microbicides contg. azoles and(or) morpholine derivs.  
as stabilizers for processing hides and **leather**)

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273 L1

653 L2

66272 TEXTILES

L5 1 L1 AND L2 AND TEXTILES

=> d.15 1 all

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AN 2001:735421 CAPLUS

DN 135:257037

TI Preparation of arylisocyanates and arylanhydrides and derivatives thereof  
as biocidal compounds

IN Bach, Sylvie; Chaumat, Gilles; Gandini, Alessandro; Seigle Murandi,  
Francoise; Sage, Lucile

PA Commissariat A L'Energie Atomique, Fr.

SO Fr. Demande, 40 pp.

CODEN: FRXXBL

DT Patent

LA French

IC ICM A01N043-653

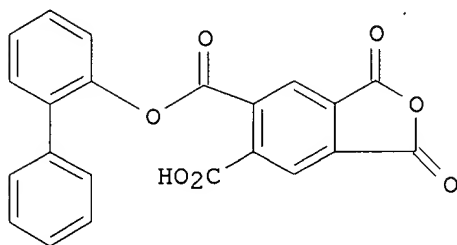
ICS A01N043-08; A01N025-08; B27K003-38; D21H021-36

CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 5

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----

PI FR 2802771 A1 20010629 FR 1999-16474 19991224  
 OS CASREACT 135:257037; MARPAT 135:257037  
 GI



IV

- AB Title compds. OCN-R-NH-CO-X-A (I), Anh-R'-CO-X-A (II) and Ep-R'-CH(OH)-X-A (III) [R, R' = org. fragments; Anh = anhydride; Ep = epoxide; X-A is a residue of a biocidal mol. composed of A-XH] were prepd. For instance 2-phenylphenol was reacted with 1,2,4,5-Benzenetetracarboxylic acid anhydride (THF, DBTL, DMAP, 65.degree.C, 15 min) to give IV. Examples of I and II had antifungal activity estd. at 0.01 to 1 nM. Substrates such as wood, paper, **textiles**, etc. can be covalently modified by reaction to I, II and III and will exhibit antifungal properties (2 examples, no data).
- ST arylisocyanate arylanhydride biocide antifungal insecticide prepn; triazole biphenyl antifungal prepn
- IT Antibacterial agents  
 Fungicides  
 Insecticides  
 Wood preservatives  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT 361391-49-3P 361391-50-6P 361391-51-7DP, polymer bound  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT 77-58-7 619-60-3, DMAP  
 RL: CAT (Catalyst use); USES (Uses)  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT 75-09-2, Dichloromethane, uses 109-99-9, Tetrahydrofuran, uses 110-86-1, Pyridine, uses  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT 107534-96-3, Tebuconazole  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT 89-32-7 90-43-7, 2-Hydroxybiphenyl 104-49-4, 1,4-Phenylene diisocyanate 94361-06-5, Cyproconazole  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactant; prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)

=> s 11 and 12 and paint

273 L1  
653 L2  
45170 PAINT  
35565 PAINTS  
61220 PAINT

(PAINT OR PAINTS)

L6 1 L1 AND L2 AND PAINT

=> d 16 1 all

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AN 2000:553353 CAPLUS

DN 133:160845

TI Use of halogenated benzonitrile and conazole fungicides for preventing of acrylic **paint** coatings fading

IN Briendel, Kenneth A.; Firman, Samuel A.

PA Cognis Corporation, USA

SO PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A01N043-647

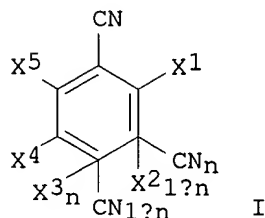
ICS A01N037-34; C09D005-00

CC 5-2 (Agrochemical Bioregulators)

Section cross-reference(s): 41

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000045636	A1	20000810	WO 2000-US3137	20000208
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	EP 1150567	A1	20011107	EP 2000-907194	20000208
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
PRAI	US 1999-119144	P	19990208		
	WO 2000-US3137	W	20000208		
OS	MARPAT 133:160845				
GI					



AB A method for preventing the fading of water based acrylic **paint** coatings consists of incorporation therein of a mixt. of a halogenated benzonitrile fungicide of the formula I (X1, X2, X3, X4, and X5 = H or halogen, with at least one X = halogen, n = 0, 1), and conazole

fungicides.

ST fungicide chlorothalonil tetraconazole mixt **paint** fading

IT Fading

Fungicides

(halogenated benzonitrile and conazole fungicide mixts. for preventing of acrylic **paints** fading)

IT **Paints**

(water-thinned; halogenated benzonitrile and conazole fungicide mixts. for preventing of acrylic **paints** fading)

IT 1897-45-6D, Chlorothalonil, mixt. with conazole compds. 66246-88-6D, Penconazole, mixt. with halogenated benzonitrile compds. 76674-21-0D, Flutriafol, mixt. with halogenated benzonitrile compds. 79983-71-4D, Hexaconazole, mixt. with halogenated benzonitrile compds. **94361-06-5D**, Cyproconazole, mixt. with halogenated benzonitrile compds. **107534-96-3D**, Tebuconazole, mixt. with halogenated benzonitrile compds. 112281-77-3D, Tetraconazole, mixt. with halogenated benzonitrile compds. 146218-59-9, Tetraconazole-Chlorothalonil mixt. RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(halogenated benzonitrile and conazole fungicide mixts. for preventing of acrylic **paints** fading)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Culbreath; US 1400 A 1995 CAPLUS

(2) Kataria; Crop Prot 1990, V9(6), P403 CAPLUS

(3) Laidler; Brighton Crop Prot Conf --Pests Dis 1990, 2, P819 CAPLUS

(4) Liu; Polym Prepr 1997, V38(2), P624 CAPLUS

(5) Smith; US 5834006 A 1998 CAPLUS

(6) Tadros; US 5139773 A 1992 CAPLUS

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to PHARMASEARCH  
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Index  
NEWS 4 Oct 09 Number of Derwent World Patents Index updates increased  
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NEWS 6 Oct 22 Over 1 million reactions added to CASREACT  
NEWS 7 Oct 22 DGENE GETSIM has been improved  
NEWS 8 Oct 29 AAASD no longer available  
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NEWS 12 Nov 29 DWPI revisions to NTIS and US Provisional Numbers  
NEWS 13 Nov 30 Files VETU and VETB to have open access  
NEWS 14 Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002  
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NEWS 16 Dec 17 WELDASEARCH now available on STN  
NEWS 17 Dec 17 STANDARDS now available on STN  
NEWS 18 Dec 17 New fields for DPCI  
NEWS 19 Dec 19 CAS Roles modified  
NEWS 20 Dec 19 1907-1946 data and page images added to CA and CPlus  
NEWS 21 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web  
NEWS 22 Jan 25 Searching with the P indicator for Preparations  
NEWS 23 Jan 29 FSTA has been reloaded and moves to weekly updates  
NEWS 24 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update  
frequency  
NEWS 25 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02  
NEWS 26 Mar 08 Gene Names now available in BIOSIS  
  
NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,  
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),  
AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002  
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DICTIONARY FILE UPDATES: 12 MAR 2002 HIGHEST RN 400707-37-1

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

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Calculated physical property data is now available. See HELP PROPERTIES  
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Registry File, for complete details:  
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during this period, either directly appended to a CAS Registry Number  
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As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the PREP role indicator were not affected.

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receive a credit for any duplicate searches.

=> s cyproconazole/cn  
L1 1 CYPROCONAZOLE/CN

=> s tebuconazole/cn  
L2 1 TEBUCONAZOLE/CN

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FILE COVERS 1907 - 14 Mar 2002 VOL 136 ISS 11  
FILE LAST UPDATED: 12 Mar 2002 (20020312/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

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```
=> s l1 and l2 and industrial materials
      273 L1
      653 L2
      194179 INDUSTRIAL
        42 INDUSTRIALS
      194201 INDUSTRIAL
          (INDUSTRIAL OR INDUSTRIALS)
      1411418 MATERIALS
        3 MATERIALSES
      1411419 MATERIALS
          (MATERIALS OR MATERIALSES)
        946 INDUSTRIAL MATERIALS
          (INDUSTRIAL(W)MATERIALS)
L3      0 L1 AND L2 AND INDUSTRIAL MATERIALS
```

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=> s l1 and l2 and leather
      273 L1
      653 L2
      38002 LEATHER
      4643 LEATHERS
      38709 LEATHER
          (LEATHER OR LEATHERS)
L4      2 L1 AND L2 AND LEATHER
```

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=> d l4 1-2 all
```

```
L4  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2002 ACS
AN  1997:440126  CAPLUS
DN  127:46479
TI  Water-based, solvent- and emulsifier-free microbicidal compositions.
IN  Buschhaus, Hans-Ulrich; Exner, Otto; Kugler, Martin; Nagano, Yukihiro
PA  Bayer A.-G., Germany
SO  Ger. Offen., 12 pp.
```

CODEN: GWXXBX  
 DT Patent  
 LA German  
 IC ICM A01N043-653  
 ICS A01N043-50; A01N043-40  
 ICI A01N043-653, A01N043-50, A01N043-40  
 CC 5-2 (Agrochemical Bioregulators)  
 Section cross-reference(s): 43, 45  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19543477	A1	19970528	DE 1995-19543477	19951122
	CA 2238033	AA	19970529	CA 1996-2238033	19961111
	WO 9718713	A1	19970529	WO 1996-EP4919	19961111
	W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9675694	A1	19970611	AU 1996-75694	19961111
	EP 863709	A1	19980916	EP 1996-938169	19961111
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
	JP 2000500475	T2	20000118	JP 1997-519342	19961111
	BR 9611746	A	20000328	BR 1996-11746	19961111
PRAI	DE 1995-19543477	A	19951122		
	WO 1996-EP4919	W	19961111		
OS	MARPAT 127:46479				
AB	The title compns. comprise azole fungicide(s) (triadimefon, triadimenol, tebuconazole, hexaconazole, etc.), nitromethylene or related insecticide(s) and quaternary ammonium fungicide(s). The compns. are useful for the preservation of <b>leather</b> , wood and tech. materials.				
ST	microbicidal compn wood <b>leather</b> tech				
IT	Antibacterial agents				
	Fungicides				
	(industrial; water-based, solvent- and emulsifier-free microbicidal compns.)				
IT	Alkylbenzyltrimethylammonium chlorides				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(mixts. contg.; microbicidal compn. for preservation of <b>leather</b> , wood and tech. materials)				
IT	Quaternary ammonium compounds, biological studies				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(mixts. contg.; microbicidal compns. for preservation of <b>leather</b> , wood and tech. materials)				
IT	<b>Leather</b>				
	Wood preservatives				
	(water-based, solvent- and emulsifier-free microbicidal compns.)				
IT	191226-82-1				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(microbicidal compn. for preservation of <b>leather</b> , wood and tech. materials)				
IT	43121-43-3D, Triadimefon, mixts. contg. 55219-65-3D, Triadimenol, mixts. contg. 60207-31-0D, Azaconazole, mixts. contg. 60207-90-1D, Propiconazole, mixts. contg. 67747-09-5D, Prochloraz, mixts. contg. 79983-71-4D, Hexaconazole, mixts. contg. <b>94361-06-5D</b> , Cyproconazole, mixts. contg. 101336-63-4D, mixts. contg. <b>107534-96-3D</b> , Tebuconazole, mixts. contg. 120983-64-4D, mixts. contg. 130400-55-4D, mixts. contg. 131748-54-4D, mixts. contg. 131748-55-5D, mixts. contg. 136516-18-2D, mixts. contg. 138261-41-3D,				



Imidacloprid, mixts. contg. 160430-64-8D, mixts. contg. 172333-81-2D, mixts. contg.

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(microbicidal compns. for preservation of **leather**, wood and tech. materials)

IT 7173-51-5, Didecyldimethylammonium chloride

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(mixts. contg.; microbicidal compn. for preservation of **leather**, wood and tech. materials)

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 1997:33961 CAPLUS

DN 126:61838

TI Phenolic compound microbicides for processing hides and **leather**

IN Rother, Heinz-Joachim; Kugler, Martin; Rehbein, Hartmut

PA Bayer A.-G., Germany

SO Ger. Offen., 3 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM A01N031-08

ICS A01N043-84; A01N043-647; A01N043-52; A01N043-50

ICI A01N031-08, A01N043-84, A01N043-647, A01N043-52, A01N043-50

CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)

Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19517840	A1	19961121	DE 1995-19517840	19950516
	CA 2220992	AA	19961121	CA 1996-2220992	19960503
	WO 9636739	A1	19961121	WO 1996-EP1845	19960503
	W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9656935	A1	19961129	AU 1996-56935	19960503
	AU 704282	B2	19990415		
	EP 827553	A1	19980311	EP 1996-915014	19960503
	R: AT, BE, DE, ES, GB, IT, NL, SE, PT, FI				
	BR 9609081	A	19990202	BR 1996-9081	19960503
	ZA 9603849	A	19961121	ZA 1996-3849	19960515
	US 5888415	A	19990330	US 1997-952413	19971113
	US 6083414	A	20000704	US 1998-213584	19981217
PRAI	DE 1995-19517840	A	19950516		
	WO 1996-EP1845	W	19960503		
AB	The microbicidal life is extended for phenolic compds. in the title process by addn. of triazoles, benzimidazoles, imidazoles, and(or) morpholine derivs.				
ST	phenolic compd microbicide hide <b>leather</b> processing; morpholine deriv stabilizer phenolic microbicide; imidazole deriv stabilizer phenolic microbicide; benzimidazole deriv stabilizer phenolic microbicide; triazole deriv stabilizer phenolic microbicide				
IT	Antibacterial agents				
	Hide				
	<b>Leather</b>				
	Stabilizing agents				
	(phenolic compd. microbicides contg. azoles and(or) morpholine derivs. as stabilizers for processing hides and <b>leather</b> )				
IT	59-50-7, p-Chloro-m-cresol 90-43-7, o-Phenylphenol				
	RL: BAC (Biological activity or effector, except adverse); BUU (Biological				

use, unclassified); BIOL (Biological study); USES (Uses)  
(phenolic compd. microbicides contg. azoles and(or) morpholine derivs.  
as stabilizers for processing hides and **leather**)

IT 88-04-0 92-69-3, p-Phenylphenol 97-23-4, Dichlorophen 120-32-1,  
2-Benzyl-4-chlorophenol 122-99-6 580-51-8, m-Phenylphenol  
25154-55-6, Nitrophenol 25167-83-3, Tetrachlorophenol 25376-38-9,  
Tribromophenol

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(phenolic compd. microbicides contg. azoles and(or) morpholine derivs.  
as stabilizers for processing hides and **leather**)

IT 61-82-5, Amitrole 141-91-3D, 2,6-Dimethylmorpholine, C8-16-alkyl derivs.  
148-79-8 1593-77-7, Dodemorph 3878-19-1, Fuberidazole 17804-35-2,  
Benomyl 22916-47-8, Miconazole 23593-75-1, Canesten 27220-47-9,  
Econazole 27523-40-6, Isoconazole 35554-44-0, Imazalil 41083-11-8,  
Azocyclotin 43121-43-3, Triadimefon 55179-31-2, Bitertanol  
55219-65-3, Triadimenol 60207-31-0, Azaconazole 60207-90-1,  
Propiconazole 60628-96-8, Bifonazole 61318-90-9, Sulconazole  
66246-88-6, Penconazole 67564-91-4, Fenpropimorph 67747-09-5,  
Prochloraz 68694-11-1, Triflumizole 76608-88-3, Triapenthenol  
76674-05-0 76674-21-0, Flutriafol 76738-62-0 78613-35-1, Amorolfine  
79983-71-4, Hexaconazole 81412-43-3, Tridemorph 83657-22-1,  
Uniconazole 85509-19-9, Flusilazole 86598-92-7, Imibenconazole  
88671-89-0, Myclobutanil 91315-15-0, Aldimorph **94361-06-5**,  
Cyproconazole 101903-30-4, Pefurazoate 103112-36-3, Fenchlorazole  
**107534-96-3**, Tebuconazole 111566-22-4, Isozophos 112281-77-3,  
Tetraconazole 114369-43-6, Fenethanil 119006-77-8, Flutrimazole  
119446-68-3, Difenoconazole 125116-23-6, Metconazole 129586-32-9  
131983-72-7, Triticonazole 133855-98-8, Epoxiconazole 136426-54-5,  
Fluquinconazole

RL: MOA (Modifier or additive use); USES (Uses)

(phenolic compd. microbicides contg. azoles and(or) morpholine derivs.  
as stabilizers for processing hides and **leather**)

=> s l1 and l2 and textiles

273 L1

653 L2

66272 TEXTILES

L5 1 L1 AND L2 AND TEXTILES

=> d l5 1 all

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AN 2001:735421 CAPLUS

DN 135:257037

TI Preparation of arylisocyanates and arylanhydrides and derivatives thereof  
as biocidal compounds

IN Bach, Sylvie; Chaumat, Gilles; Gandini, Alessandro; Seigle Murandi,  
Francoise; Sage, Lucile

PA Commissariat A L'Energie Atomique, Fr.

SO Fr. Demande, 40 pp.

CODEN: FRXXBL

DT Patent

LA French

IC ICM A01N043-653

ICS A01N043-08; A01N025-08; B27K003-38; D21H021-36

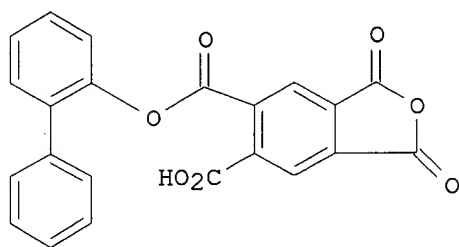
CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

PI FR 2802771 A1 20010629 FR 1999-16474 19991224  
 OS CASREACT 135:257037; MARPAT 135:257037  
 GI



IV

- AB Title compds. OCN-R-NH-CO-X-A (I), Anh-R'-CO-X-A (II) and Ep-R'-CH(OH)-X-A (III) [R, R' = org. fragments; Anh = anhydride; Ep = epoxide; X-A is a residue of a biocidal mol. composed of A-XH] were prepd. For instance 2-phenylphenol was reacted with 1,2,4,5-Benzenetetracarboxylic acid anhydride (THF, DBTL, DMAP, 65.degree.C, 15 min) to give IV. Examples of I and II had antifungal activity estd. at 0.01 to 1 nM. Substrates such as wood, paper, **textiles**, etc. can be covalently modified by reaction to I, II and III and will exhibit antifungal properties (2 examples, no data).
- ST arylisocyanate arylanhydride biocide antifungal insecticide prepn; triazole biphenyl antifungal prepn
- IT Antibacterial agents  
 Fungicides  
 Insecticides  
 Wood preservatives  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT 361391-49-3P 361391-50-6P 361391-51-7DP, polymer bound  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT 77-58-7 619-60-3, DMAP  
 RL: CAT (Catalyst use); USES (Uses)  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT 75-09-2, Dichloromethane, uses 109-99-9, Tetrahydrofuran, uses 110-86-1, Pyridine, uses  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT **107534-96-3**, Tebuconazole  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)
- IT 89-32-7 90-43-7, 2-Hydroxybiphenyl 104-49-4, 1,4-Phenylene diisocyanate **94361-06-5**, Cyproconazole  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactant; prepn. of (hetero)aryl-alkyl-amido-aryl-isocyanates/anhydrides and derivs. thereof as biocidal compds.)

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NEWS 4 Oct 09 Number of Derwent World Patents Index updates increased  
NEWS 5 Oct 15 Calculated properties now in the REGISTRY/ZREGISTRY File  
NEWS 6 Oct 22 Over 1 million reactions added to CASREACT  
NEWS 7 Oct 22 DGENE GETSIM has been improved  
NEWS 8 Oct 29 AAASD no longer available  
NEWS 9 Nov 19 New Search Capabilities USPATFULL and USPAT2  
NEWS 10 Nov 19 TOXCENTER(SM) - new toxicology file now available on STN  
NEWS 11 Nov 29 COPPERLIT now available on STN  
NEWS 12 Nov 29 DWPI revisions to NTIS and US Provisional Numbers  
NEWS 13 Nov 30 Files VETU and VETB to have open access  
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NEWS 21 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web  
NEWS 22 Jan 25 Searching with the P indicator for Preparations  
NEWS 23 Jan 29 FSTA has been reloaded and moves to weekly updates  
NEWS 24 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update  
frequency  
NEWS 25 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02  
NEWS 26 Mar 08 Gene Names now available in BIOSIS  
  
NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,  
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FILE 'HOME' ENTERED AT 09:39:07 ON 14 MAR 2002

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.15

0.15

FILE 'REGISTRY' ENTERED AT 09:39:22 ON 14 MAR 2002

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STRUCTURE FILE UPDATES: 12 MAR 2002 HIGHEST RN 400707-37-1

DICTIONARY FILE UPDATES: 12 MAR 2002 HIGHEST RN 400707-37-1

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/Z/CA/Caplus files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with /P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/Caplus files  
incorporating CAS Registry Numbers with the P indicator between 12/27/01  
and 1/23/02, are encouraged to re-run these strategies. Contact the  
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

=> s opus/cn

L1 1 OPUS/CN

=> d l1 all

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS

RN 133855-98-8 REGISTRY

CN 1H-1,2,4-Triazole, 1-[[ (2R,3S)-3-(2-chlorophenyl)-2-(4-  
fluorophenyl)oxiranyl)methyl]-, rel- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(4-  
fluorophenyl)oxiranyl)methyl]-, cis-(.+-.)-

OTHER NAMES:

CN BAS 480F

CN Epoxiconazole

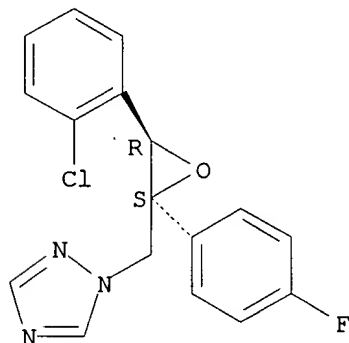
CN **Opus**

FS STEREOSEARCH  
 DR 106325-08-0, 205862-63-1  
 MF C17 H13 Cl F N3 O  
 CI COM  
 SR CA  
 LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB,  
 CHEMCATS, CHEMLIST, CIN, CSCHEM, MEDLINE, MRCK\*, PROMT, SPECINFO,  
 TOXCENTER, ULIDAT, USPATFULL  
 (\*File contains numerically searchable property data)

#### Ring System Data

Elemental Analysis	Elemental Sequence	Size of the Rings	Ring System Formula	Ring Identifier	RID Occurrence
EA	ES	SZ	RF	RID	Count
C2O	OC2	3	C2O	1.30.1	1
C2N3	N2CNC	5	C2N3	16.515.13	1
C6	C6	6	C6	46.150.18	2

#### Relative stereochemistry.



#### Calculated Properties (CALC)

CODE	PROPERTY	VALUE	CONDITION	NOTE
HD	H donors	0		ACD (1)
HAC	H acceptors	4		ACD (1)
MW	Molecular Weight	329.76		ACD (1)
LOGP	logP	2.873+/-0.650		ACD (1)
LOGD	logD	-0.77	pH 1	ACD (1)
LOGD	logD	1.93	pH 4	ACD (1)
LOGD	logD	2.87	pH 7	ACD (1)
LOGD	logD	2.87	pH 8	ACD (1)
LOGD	logD	2.87	pH 10	ACD (1)
PKA	pKa	4.89+/-0.41	Most Basic	ACD (1)
SLB.MOL	Molar Solubility	>=0.1 - <1 mol/L	pH 1	ACD (1)
SLB.MOL	Molar Solubility	<0.01 mol/L	pH 4	ACD (1)
SLB.MOL	Molar Solubility	<0.01 mol/L	pH 7	ACD (1)
SLB.MOL	Molar Solubility	<0.01 mol/L	pH 8	ACD (1)
SLB.MOL	Molar Solubility	<0.01 mol/L	pH 10	ACD (1)

(1) Calculated using Advanced Chemistry Development (ACD) Software Solaris  
 V4.67 ((C) 1994-2002 ACD)

139 REFERENCES IN FILE CA (1967 TO DATE)  
35 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
140 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1

AN 136:49551 CA  
TI Impact of fungicides on active oxygen species and antioxidant enzymes in  
spring barley (*Hordeum vulgare* L.) exposed to ozone  
AU Wu, Yue-xuan; von Tiedemann, Andreas  
CS Faculty of Agriculture, Department of Phytomedicine, University of  
Rostock, Rostock, 18051, Germany  
SO Environmental Pollution (Oxford, United Kingdom) (2001), Volume Date 2002,  
116(1), 37-47  
CODEN: ENPOEK; ISSN: 0269-7491  
PB Elsevier Science Ltd.  
DT Journal  
LA English  
CC 4-4 (Toxicology)  
Section cross-reference(s): 11, 17, 59  
AB Modern fungicides widely used in cereal prodn. have antioxidant effects  
and may reduce the impact of ozone on grain prodn. Two modern fungicides,  
a strobilurin, azoxystrobin (AZO), and a triazole, Epoxiconazole (EPO),  
applied as foliar spray on spring barley (*Hordeum vulgare* L. cv. Scarlett)  
3 days prior to fumigation with injurious doses of ozone (150-250 ppb; 5  
days; 7 h/day) induced a 50-60% protection against ozone injury on leaves.  
Fungicide treatments of barley plants at growth stage (GS) 32  
significantly increased the total leaf sol. protein content. Addnl.,  
activities of the antioxidative enzymes superoxide dismutase (SOD),  
catalase (CAT), ascorbate-peroxidase (APX), and glutathione reductase (GR)  
were increased by both fungicides at maximal rates of 16, 75, 51, and  
144%, resp. Guaiacol-peroxidase (POX) activity was elevated by 50-110%  
only in AZO-treated plants while this effect was lacking after treatments  
with EPO. This coincided with elevated levels of H<sub>2</sub>O<sub>2</sub> only in EPO- and  
not in AZO-treated plants. The enhancement of the plant antioxidative  
system by the 2 fungicides significantly and considerably reduced the  
level of superoxide (O<sub>2</sub>·-) in leaves. Fumigation of barley plants for 4  
days with non-injurious ozone doses (120-150 ppb, 7 h/day) markedly and  
immediately stimulated O<sub>2</sub>·- accumulation in leaves while H<sub>2</sub>O<sub>2</sub> was  
increased only after the third day of fumigation. Therefore, O<sub>2</sub>·- itself  
or as a precursor of even more toxic oxyradicals appears to be more  
indicative for ozone-induced leaf damage than H<sub>2</sub>O<sub>2</sub>. Ozone also induced  
significant increases in the activity of antioxidant enzymes (SOD, POX,  
and CAT) after 2 days of fumigation in fungicide-untreated plants while  
after 4 days of fumigation these enzymes declined to a level lower than in  
unfumigated plants, due to the oxidative degrdn. of leaf proteins. This  
is the first report demonstrating the marked enhancement of plant  
antioxidative enzymes and the enhanced scavenging of potentially harmful  
O<sub>2</sub>·- by fungicides as a mechanism of protecting plants against noxious  
oxidative stress from the environment. The antioxidant effect of modern  
fungicides widely used in intense cereal prodn. in many countries  
represents an important factor when evaluating potential air pollution  
effects in agriculture.  
ST fungicide antioxidant enzyme *Hordeum* ozone; spring barley oxidative stress  
ozone azoxystrobin Epoxiconazole  
IT Enzymes, biological studies  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(antioxidant; impact of fungicides on active oxygen species and  
antioxidant enzymes in spring barley exposed to ozone)  
IT Air pollution  
Barley  
Cereal (grain)

Fungicides  
Growth and development, plant  
Oxidative stress, biological  
Senescence, plant

(impact of fungicides on active oxygen species and antioxidant enzymes  
in spring barley exposed to ozone)

IT Reactive oxygen species

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(impact of fungicides on active oxygen species and antioxidant enzymes  
in spring barley exposed to ozone)

IT Proteins

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(sol.; impact of fungicides on active oxygen species and antioxidant  
enzymes in spring barley exposed to ozone)

IT 10028-15-6, Ozone, biological studies

RL: ADV (Adverse effect, including toxicity); POL (Pollutant); BIOL  
(Biological study); OCCU (Occurrence)

(impact of fungicides on active oxygen species and antioxidant enzymes  
in spring barley exposed to ozone)

IT 7722-84-1, Hydrogen peroxide, biological studies 9001-05-2, Catalase

9001-48-3, Glutathione reductase 9003-99-0, Peroxidase 9054-89-1,

Superoxide dismutase 11062-77-4, Superoxide 72906-87-7, Ascorbate

peroxidase 131860-33-8, Azoxystrobin 133855-98-8, Epoxiconazole

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(impact of fungicides on active oxygen species and antioxidant enzymes  
in spring barley exposed to ozone)

RE.CNT 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD

- (1) Bender, J; Environ Pollut 1994, V84, P15 CAPLUS
- (2) Bowler, C; Annu Rev Plant Physiol Plant Mol Biol 1992, V43, P83 CAPLUS
- (3) Bradford, M; Anal Biochem 1976, V72, P248 CAPLUS
- (4) Brunschon-Harti, S; Environ Pollut 1995, V90, P95
- (5) Buchenauer, H; Modern Selective Fungicides: Properties, Application,  
Mechanism of Action, 2nd Edition 1995, P259
- (6) Castillo, F; Environ Exp Bot 1988, V28, P231 CAPLUS
- (7) Chanway, C; Can J Bot 1984, V62, P236 CAPLUS
- (8) Dixon, J; Pestic Sci 1996, V46, P381 CAPLUS
- (9) Duran-Carril, M; Ann Appl Biol 1998, V133, P455 CAPLUS
- (10) Elstner, E; Methods of Enzymatic Analysis 1983, V3, P293 CAPLUS
- (11) Elstner, E; Proceedings of the Royal Society of Edinburgh 1994, V102B,  
P131
- (12) Enyedi, A; New Phytol 1992, V122, P493 CAPLUS
- (13) Fangmeier, A; Angew Bot 1993, V67, P199 CAPLUS
- (14) Grossmann, K; Pestic Sci 1997, V50, P11 CAPLUS
- (15) Heath, R; Air Pollution and Plant Metabolism 1988, P55
- (16) Hernandez, J; New Phytol 1999, V141, P241 CAPLUS
- (17) Hill, A; Phytopathology 1961, V51, P356 CAPLUS
- (18) Hofstra, G; Plant Disease Reporter 1978, V62, P350 CAPLUS
- (19) Lee, E; Environ Exp Bot 1984, V24, P31
- (20) Lee, E; Plant Physiol 1981, V67, P347 CAPLUS
- (21) Lee, E; Plant Physiol 1982, V69, P1444 CAPLUS
- (22) Lyons, T; New Phytol 1999, V141, P253 CAPLUS
- (23) Mackay, C; Plant Cell Physiol 1987, V28, P1271 CAPLUS
- (24) Malhotra, S; Air Pollution and Plant Life 1984, P113 CAPLUS
- (25) McKersie, B; Can J Bot 1982, V60, P2686 CAPLUS
- (26) Mehlhorn, H; Free Rad Res Comms 1987, V3(1-5), P193 CAPLUS
- (27) Mehlhorn, H; J Exper Bot 1991, V42, P17 CAPLUS
- (28) Mehlhorn, H; Nature 1987, V327, P417 CAPLUS
- (29) Mehlhorn, H; Physiol Plant 1990, V79, P377 CAPLUS
- (30) Mercer, P; Test-Agrochem-Cultiv 1996, V17, P22 CAPLUS
- (31) Mercer, P; Test-Agrochem-Cultiv 1998, V19, P24 CAPLUS
- (32) Mersie, W; Environ Exper Bot 1990, V30, P443 CAPLUS
- (33) Merzlyak, M; Proceedings of the Royal Society of Edinburgh 1994, V102B,



- (34) Meyer, U; New Phytol 1997, V136, P645 CAPLUS
- (35) Mudd, J; Effects of Gaseous Air Pollution in Agriculture and Horticulture 1982, P189 CAPLUS
- (36) Nakano, Y; Plant and Cell Physiol 1981, V22, P867 CAPLUS
- (37) Nast, W; Environ Pollut 1993, V80, P85. CAPLUS
- (38) Nouchi, I; Soil Sci Plant Nutr 1993, V39, P309 CAPLUS
- (39) Ojanpera, K; New Phytol 1992, V120, P39
- (40) Ormrod, D; Nature 1981, V291, P585 CAPLUS
- (41) Pauls, K; Nature 1980, V283, P504 CAPLUS
- (42) Pellissier, M; Phytopathology 1972, V62, P580 CAPLUS
- (43) Pitcher, L; Plant Physiol 1992, V99, P1388 CAPLUS
- (44) Ranieri, A; Physiol Plant 1996, V97, P381 CAPLUS
- (45) Reich, P; Science 1985, V230, P566 CAPLUS
- (46) Reinert, R; J Environ Quality 1972, V1, P450 CAPLUS
- (47) Sakaki, T; Physiol Plant 1983, V59, P28 CAPLUS
- (48) Scandalios, J; Adv Genet 1990, V28, P1 CAPLUS
- (49) Sheng, W; Environ Pollut 1993, V80, P45 CAPLUS
- (50) Sild, E; New Phytol 1999, V143, P315 CAPLUS
- (51) Tandy, N; Plant Physiol 1989, V90, P742 CAPLUS
- (52) Taylor, G; Phytopathology 1970, V60, P578
- (53) Tiedemann, A; Physiol Mol Plant Pathol 1997, V50, P151 CAPLUS
- (54) Tottman, D; Ann Appl Biol 1987, V110, P441
- (55) Walmsley, L; Environ Pollut 1980, V23, P165 CAPLUS
- (56) Wang, A; Plant Physiol Commun 1990, V6, P55
- (57) Whiteside, C; Arch Biochem Biophys 1987, V257, P464 CAPLUS
- (58) Whiteside, C; Free Rad Biol Med 1988, V5, P305 CAPLUS
- (59) Wozny, A; Acta Societatis Botanicorum Poloniae 1989, V58, P625 CAPLUS
- (60) Ypema, H; Plant Dis 1999, V83, P4 CAPLUS

## REFERENCE 2

- AN 136:33242 CA
- TI Chemical control of rust in fig seedlings (*Ficus carica*)
- AU Marchi, Carlos E.; de Resende, Mario L. V.; Chalfun, Nilton N. J.
- CS Departamento de Fitopatologia, UFLA, Lavras, Brazil
- SO Summa Phytopathologica (2001), 27(2), 240-245  
CODEN: SUPHDV; ISSN: 0100-5405
- PB Grupo Paulista de Fitopatologia
- DT Journal
- LA Portuguese
- CC 5-2 (Agrochemical Bioregulators)
- AB The fig rust is a disease broadly spread, causing accentuated defoliation and under development of seedlings in nurseries. The present work was accomplished with seedlings of fig cv. Roxo-de-Valinhos in the orchard of UFLA/Lavras-MG, having as objective to verify the efficiency of some protective and systemic fungicides, analyzing and correlating the progress of disease with the climatic data. The exptl. design was randomized entirely with 6 treatments and 16 repetitions. The treatments were (doses a.i./100l H<sub>2</sub>O, biweekly applications): 1 - control; 2 - mancozeb 800 PM (160 g); 3 - cuprous oxide 500 PM (120 g); 4 - tebuconazole 200 CE (15 g); 5 - copper oxychloride 500 PM (100 g); and 6 - epoxyconazole 125 SC (50 g). Every fifteen days, evaluations of disease incidence and severity, and in the final of the expt. the percentage of remaining leaves/treatment were quantified. The first symptoms of rust appeared in early Nov. of 1998, and the disease was pos. correlated with the temp., but not with the rainfall and relative humidity. The fungicide mancozeb was the most effective in redn. of disease incidence, followed by the cuprous oxide. Smaller severity was also obtained with the mancozeb application, and soon after with the cupric. Regarding the percentage of remaining leaves, the fungicides did not differ significantly, but did differ from the control.
- ST fungicide Phakopsora rust fig seedling

IT Fig (*Ficus carica*)  
 Fungicides  
 Phakopsora nishidana  
 Seedling  
 (chem. control of rust in fig seedlings)

IT 1317-39-1, Cuprous oxide, biological studies 1332-40-7, Copper  
 oxychloride 8018-01-7, Mancozeb 107534-96-3, Tebuconazole 133855-98-  
 8  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (chem. control of rust in fig seedlings)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD

- (1) Abrahao, E; Revista Brasileira de Fruticultura 1990, V12(2), P12
- (2) Azevedo, L; Manual de quantificacao de doencas de plantas 1997
- (3) Bahia Filho, A; Seiva 1970, V30, P34
- (4) Chalfoun, S; Informe Agropecuario 1997, V18(188), P39
- (5) De Vincenzo, M; Fitopatologia Brasileira 1997, V22(suplemento), P221
- (6) De Vincenzo, M; Horticultura Brasileira 1996, V14(1), P83
- (7) Kimati, H; Manual de fitopatologia 1980, V2, P319
- (8) Marchi, C; Dissertacao Mestrado em Fitopatologia, Universidade Federal de Lavras 1999
- (9) Nogueira, E; Congresso Brasileiro de Fruticultura, 8 1986, V2, P281
- (10) Nogueira, E; Fitopatologia Brasileira 1991, V16(1), P112 CAPLUS

# REFERENCE 3

AN 136:18051 CA

TI Factors affecting diseases of winter wheat in England and Wales, 1989-98

AU Hardwick, N. V.; Jones, D. R.; Slough, J. E.

CS Central Science Laboratory, York, YO41 1LZ, UK

SO Plant Pathology (2001), 50(4), 453-462  
 CODEN: PLPAAD; ISSN: 0032-0862

PB Blackwell Science Ltd.

DT Journal

LA English

CC 11-5 (Plant Biochemistry)

AB Samples from 360 to 450 randomly selected winter wheat crops in England and Wales were collected annually during the milky ripe development stages (GS 73-75) from 1989 to 1998. The no. of samples from each region was proportional to the area of winter wheat grown. The percentage area affected by disease was assessed on the top two leaves and the ear, and the incidence and severity of stem base diseases were also recorded. An est. of the percentage area of the crop affected by barley yellow dwarf virus (BYDV) and take-all (*Gaeumannomyces graminis*) was made in the field. Septoria leaf blotch (*Septoria tritici*, teleomorph *Mycosphaerella graminicola*) was the major foliar disease recorded, with an av. max. severity of 7.cntdot.8% of the area of leaf 2 affected in 1998. Eyespot (*Tapesia* spp.) was the major stem base disease, with the highest incidence of stems falling into the damaging moderate plus severe categories (18.cntdot.9%) in 1998. Levels of powdery mildew (*Blumeria graminis*) showed a decline from 0.cntdot.4% of the area of leaf 2 in 1989 to 0.cntdot.1% in 1998. This fall was assocd. with a redn. in the proportion of disease-susceptible cultivars grown. There were significant regional differences in levels of septoria leaf blotch, brown rust (*Puccinia recondita*), eyespot, sharp eyespot (*Rhizoctonia cerealis*) and BYDV. The percentage of crops treated with a fungicide rose from 96% in 1989 to 98% in 1998 and the mean no. of spray applications per crop rose during this period from 2.cntdot.1 to 2.cntdot.5. A higher proportion of crops was treated with fungicides between the end of tillering and fifth node detectable (GS 24-35) than around flag leaf emergence (GS 36-48) or ear emergence (GS 49-71). Prior to 1994, the majority of late fungicide sprays was applied at, or after, ear emergence, but from 1994, the majority was applied around flag leaf emergence. The value and

socioeconomic implications of the results are discussed.

ST wheat disease England Wales fungicide

IT Winter wheat

(disease; causes and factors affecting diseases of winter wheat in England and Wales)

IT Fungicides

(fungicides for control of winter wheat diseases in England and Wales)

IT Puccinia recondita

(winter wheat brown rust diseases in England and Wales caused by)

IT Barley yellow dwarf virus

Mycosphaerella graminicola

(winter wheat diseases in England and Wales caused by)

IT Tapesia

(winter wheat eyespot diseases in England and Wales caused by)

IT Septoria tritici

(winter wheat leaf-blotch diseases in England and Wales caused by)

IT Blumeria graminis

(winter wheat powdery mildew diseases in England and Wales caused by)

IT Ceratobasidium cereale

(winter wheat sharp eyespot diseases in England and Wales caused by)

IT Gaeumannomyces graminis

(winter wheat take-all diseases in England and Wales caused by)

IT 110-91-8, Morpholine, biological studies 10605-21-7, Carbendazim  
17804-35-2, Benomyl 43121-43-3, Triadimefon 55219-65-3, Triadimenol  
60207-90-1, Propiconazole 67306-00-7, Fenpropidin 67564-91-4,  
Fenpropimorph 67747-09-5, Prochloraz 76674-21-0, Flutriafol 81412-43  
-3, Tridemorph 85509-19-9, Flusilazole 94361-06-5, Cyproconazole  
107534-96-3, Tebuconazole 114369-43-6, Fenbuconazole 116255-48-2,  
Bromuconazole 119446-68-3, Difenconazole 131860-33-8, Azoxystrobin  
133855-98-8, Epoxiconazole 143390-89-0, Kresoxim-methyl

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(fungicides for control of winter wheat diseases in England and Wales)

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD

- (1) Anonymous; <http://www.cru.uea.ac.uk/~mikeh/datasets/uk/engwales.htm> 2001
- (2) Asher, M; Plant Health and the Single European Market (BCPC Monograph No 54) 1993, P111
- (3) Bayles, R; UK Cereal Pathogen Virulence Survey, 1998 Annual Report 1999, P27
- (4) Cavelier, A; Proceedings of the British Crop Protection Conference:Pests and Diseases 1998 1998, P1023
- (5) Clare, R; Proceedings of the British Crop Protection Conference:Pests and Diseases 1986 1986, P165 CAPLUS
- (6) Clarkson, J; Plant Pathology 1981, V30, P125
- (7) Clarkson, J; Proceedings of the Brighton Crop Protection Conference:Pests and Diseases 1981 1981, P223
- (8) Colbach, N; European Journal of Plant Pathology 1998, V104, P37
- (9) Cook, R; Costs and Benefits of Disease Control 1988, P3
- (10) Cook, R; Crop Protection 1991, V10, P504
- (11) Cook, R; Plant Diseases:Infection, Damage and Loss 1984, P237
- (12) Daamen, R; Netherlands Journal of Plant Pathology 1990, V96, P251
- (13) Hardwick, N; Aspects of Applied Biology 1996, V45, P261
- (14) Hardwick, N; Plant Pathology 1998, V47, P379
- (15) Hardwick, N; Proceedings of the 13th Triennial Conference, European Association of Potato Research 1996 1996, P631
- (16) Hardwick, N; Proceedings of the 6th International Congress of Plant Pathology, 1993 1993, P116
- (17) Hardwick, N; Proceedings of the Brighton Crop Protection Conference, Pests and Diseases, 2000 2000, P647
- (18) Hardwick, N; Proceedings of the Crop Protection in Northern Britain 1993 1993, P109
- (19) Hardwick, N; Proceedings, Quatrieme Conference Internationale sur les Maladies des Plantes 1994 1994, P1163

- (20) Jones, D; Plant Pathology 1994, V43, P831
- (21) Kendall, M; Rank Correlation Methods, 3rd edn 1962
- (22) King, J; Crop Loss Assessment 1980, P124
- (23) King, J; Plant Pathology 1977, V21, P8
- (24) Maff; Managed Disease Control 1984
- (25) Maff; Manual of Plant Growth Stages and Disease Assessment Keys 1976
- (26) Maff; <http://www.maff.gov.uk/farm/agendtwo/capref/execsumm.htm> 1999
- (27) Moore, W; Scientific Horticulture 1946, V9, P85
- (28) Morrall, R; Canadian Plant Disease Survey 1999, V79, P1
- (29) National Institute Of Agricultural Botany; Cereal Variety Handbook 1998
- (30) Paveley, N; Plant Pathology 2000, V49, P748
- (31) Polley, R; Annals of Applied Biology 1991, V119, P1
- (32) Polley, R; Annals of Applied Biology 1993, V123, P287
- (33) Priestley, R; Journal of the National Institute of Agricultural Botany 1980, V15, P215
- (34) Scott, P; Annals of Applied Biology 1974, V78, P269
- (35) Siegel, S; Non-Parametric Statistics for the Behavioural Sciences 1956
- (36) Stevens, D; Aspects of Applied Biology, 50, Optimising Cereal Inputs:its Scientific Basis 1997, P279
- (37) Thomas, M; Proceedings of the 7th International Congress of Plant Pathology, 1998 1998
- (38) Turner, J; Investigations of Fusarium Infection and Mycotoxin Levels in Harvested Wheat Grain (1998), Project report no 207 1999
- (39) Turner, J; Proceedings of the 9th International Rapeseed Congress 1995 1995, P640
- (40) Zadoks, J; Weed Research 1974, V14, P415

#### REFERENCE 4

AN 136:16727 CA  
 TI Aqueous pesticide dispersions  
 IN Strom, Robert M.; Price, D. Claude; Lubetkin, Steven D.  
 PA USA  
 SO U.S. Pat. Appl. Publ., 5 pp., Cont.-in-part of U.S. Ser. No. 546,270, abandoned.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 IC ICM A01N025-00  
 NCL 424405000  
 CC 5-4 (Agrochemical Bioregulators)  
 FAN.CNT 2

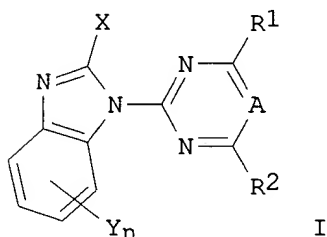
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2001051175	A1	20011213	US 2001-865360	20010525
PRAI	US 1999-128994		19990412		
	US 2000-546270		20000410		
AB	The bioavailability of a pesticide can be increased by formulating the pesticide as a stable aq. dispersion of particles in the micron or submicron range. The formulation is prepd. by blending a pesticide with a surfactant and water, followed by grinding. Such a formulation has the further advantage of reducing or eliminating the need for org. solvents. The stable aq. dispersion provides a means of prepg. a one part formulation of a plurality of pesticides which would be otherwise unstable in each other's presence.				
ST	pesticide dispersion aq				
IT	Pesticide formulations (aq. pesticide dispersions)				
IT	1912-24-9, Atrazine		133855-98-8	168316-95-8, Spinosad	264257-62-7
	RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (aq. dispersion of)				

REFERENCE 5

AN 135:368000 CA  
 TI Synergistic agrochemical microbicide compositions containing  
 pyrimidinylbenzimidazoles or triazinylbenzimidazoles  
 IN Miyake, Hiroshi; Sakai, Mitsuyoshi; Nagayama, Kouzo  
 PA Kumiai Chemical Industry Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM A01N043-52  
 ICS A01N035-10; A01N043-653; A01N043-66  
 CC 5-2 (Agrochemical Bioregulators)  
 Section cross-reference(s): 28.

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001322903	A2	20011120	JP 2000-141896	20000515
GI					



AB Agrochem. microbicide compns. contain pyrimidinylbenzimidazoles or triazinylbenzimidazoles I (A = N, CR3; R1, R2 = H, halo, alkyl, alkenyl, alkynyl, etc.; X = H, halo, NO2, cyano, alkyl, alkenyl, alkynyl, etc.; Y = halo, NO2, cyano, alkyl, alkenyl, alkynyl, etc.; n = 0-3) and methoxyacrylates, triazoles, imidazoles, piperazines, morpholines, hydroxypyrimidines, benzimidazoles, dicarboximides, triazines, phthalonitriles, dithiocarbamates, phenylpyrroles, anilinopyrimidines, guanidines, carboxamides, quinoxalines, acibenzolar-S-Me, quinoxifen, famoxadone, spiroxamine, triazoxide, S, Cu oxychloride, and/or pyrazophos. Concomitant application of I (X = Me, Yn = 5-Cl, A = N, R1 = R2 = OMe) and azoxystrobin at 0.003 and 1 ppm, resp., showed 78% control of Erysiphe graminis in wheat.

ST synergism agrochem fungicide pyrimidinylbenzimidazole triazinylbenzimidazole; benzimidazole pyrimidinyl triazinyl agrochem fungicide synergism; wheat Erysiphe control fungicide pyrimidinylbenzimidazole triazinylbenzimidazole; powdery mildew control wheat fungicide pyrimidinylbenzimidazole

IT Wheat  
 (powdery mildew; synergistic agrochem. microbicides contg. pyrimidinylbenzimidazoles or triazinylbenzimidazoles for control of)

IT Erysiphe graminis  
 (synergistic agrochem. microbicides contg. pyrimidinylbenzimidazoles or triazinylbenzimidazoles for control of)

IT Fungicides  
 (synergistic, agrochem.; synergistic agrochem. microbicides contg. pyrimidinylbenzimidazoles or triazinylbenzimidazoles)

IT 51-17-2, Benzimidazole 22536-63-6, 2-Chloro-4-methoxypyrimidine 40501-16-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; synergistic agrochem. microbicides contg. pyrimidinylbenzimidazoles or triazinylbenzimidazoles)

IT 1332-40-7D, Copper oxychloride, mixts. contg. 7704-34-9D, Sulfur, mixts. contg., biological studies 10605-21-7D, Carbendazim, mixts. with pyrimidinylbenzimidazoles or triazinylbenzimidazoles 13457-18-6D, Pyrazophos, mixts. contg. 72459-58-6D, Triazoxide, mixts. contg. 118134-30-8D, Spiroxamine, mixts. contg. 124495-18-7D, Quinoxifen, mixts. contg. 131807-57-3D, Famoxadone, mixts. contg. 133855-98-8D, mixts. with pyrimidinylbenzimidazoles or triazinylbenzimidazoles 135158-54-2D, Acibenzolar-S-methyl, mixts. contg. 143390-89-0D, Kresoxim-methyl, mixts. with pyrimidinylbenzimidazoles or triazinylbenzimidazoles

374618-04-9	374618-05-0	374618-06-1
374618-07-2	374618-08-3	374618-09-4
374618-10-7	374618-11-8	374618-12-9
374618-13-0	374618-14-1	374618-15-2
374618-16-3	374618-17-4	374618-18-5
374618-19-6	374618-20-9	374618-21-0
374618-22-2	374618-23-2	374618-24-3
374618-25-4	374618-26-5	374618-27-6
374618-28-7	374618-29-8	374618-30-1
374618-31-2	374618-32-3	374618-33-4
374618-34-5	374618-35-6	374618-36-7
374618-37-8	374618-38-9	374618-57-2
374618-58-3	374618-59-4	374618-60-7
374618-61-8	374618-62-9	374618-63-0
374618-64-1	374618-65-2	374618-66-3
374618-67-4	374618-68-5	374618-69-6
374618-70-9	374618-71-0	374618-72-1
374618-73-2	374618-74-3	374618-75-4
374618-76-5	374618-77-6	374618-78-7
374618-79-8	374618-80-1	374618-81-2
374618-82-3	374618-83-4	374618-84-5
374618-85-6	374618-86-7	374618-87-8
374618-88-9	374618-89-0	374618-90-3
374618-91-4	374618-92-5	374618-93-6
374618-94-7	374618-95-8	374618-96-9
374618-97-0	374618-98-1	374618-99-2
374619-00-8	374619-01-9	374619-02-0
374619-03-1	374619-04-2	374619-05-3
374619-06-4	374619-07-5	374619-08-6
374619-09-7	374619-10-0	374619-11-1
374619-12-2	374619-13-3	374619-14-4
374619-15-5	374619-16-6	374619-17-7
374619-18-8	374619-19-9	374619-20-2
374619-21-3	374619-22-4	374619-23-5
374619-24-6	374619-25-7	374619-26-8
374619-27-9	374619-28-0	374619-29-1
374619-30-4	374619-31-5	374619-32-6
374619-33-7	374619-34-8	374619-35-9
374619-36-0	374619-37-1	374619-38-2
374619-39-3	374619-40-6	374619-41-7
374619-42-8	374619-43-9	374619-44-0
374619-45-1	374619-46-2	374619-47-3
374619-48-4	374619-49-5	374619-50-8
374619-51-9	374619-52-0	374619-53-1
374619-54-2	374619-55-3	374619-56-4
374619-57-5	374619-58-6	374619-59-7
374619-60-0	374619-61-1	374619-62-2
374619-63-3	374619-64-4	374619-65-5
374619-66-6	374619-67-7	374619-68-8
374619-69-9	374619-70-2	374619-71-3
374619-72-4	374619-73-5	374619-74-6
374619-75-7	374619-76-8	374619-77-9
374621-52-0	374621-53-1	374621-54-2
374621-55-3	374621-56-4	374621-57-5
374621-58-6	374621-59-7	374621-60-0
374621-61-1	374621-62-2	374621-63-3
374621-64-4	374621-65-5	374621-66-6
374621-67-7	374621-68-8	374621-69-9
374621-70-2	374621-71-3	374621-72-4
374621-73-5	374621-74-6	374621-75-7
374621-76-8	374621-77-9	374621-78-0
374621-79-1	374621-80-4	374621-81-5
374621-82-6	374621-83-7	

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BIOL (Biological study); USES (Uses)

(synergistic agrochem. microbicides contg. pyrimidinylbenzimidazoles or triazinylbenzimidazoles)

IT 269720-52-7P 269721-99-5P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synergistic agrochem. microbicides contg. pyrimidinylbenzimidazoles or triazinylbenzimidazoles)

REFERENCE 6

AN 135:354170 CA

TI Low-phytotoxicity fungicide sprays.  
 IN Schussler, Jeffrey R.; Moser, Robert E.; Crosby, Kevin E.; Washington, John R.  
 PA Syngenta Ltd., UK  
 SO U.S., 8 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 IC ICM A01N025-32  
 ICS A01N027-00; A01N037-34; A01N037-44; A01N037-46; A01N043-52; A01N043-653; A01N047-12  
 NCL 514520000  
 CC 5-2 (Agrochemical Bioregulators)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6319949	B1	20011120	US 1996-740834	19961104
PRAI	US 1996-21536		19960711		

AB A method is given for preventing fungal diseases in crops which comprises the steps of: (a) applying to a crop an aq. or a nonaq. spray compn. which includes a pesticide and a spray adjuvant including a solvent and an emulsifier, wherein the solvent is a mixt. of aliph. hydrocarbons having a distn. range of 520 to 600.degree. F and an arom. content of .ltoreq.1 % or the solvent is a single or combination of C6-C18 fatty alc.(s); and (b) applying chlorothalonil to the crop previously to, simultaneously with, or subsequently to the application of the aq. spray compn., wherein phytotoxicity assocd. with the application of chlorothalonil is reduced or eliminated.

ST fungicide spray agrochem

IT Fungicides

(agrochem.; low-phytotoxicity fungicide sprays)

IT Hydrocarbons, uses

RL: MOA (Modifier or additive use); USES (Uses)

(b. 520-600.degree. F; low-phytotoxicity fungicide sprays contg.)

IT Alcohols, uses

RL: MOA (Modifier or additive use); USES (Uses)

(fatty, C6-18; low-phytotoxicity fungicide sprays contg.)

IT Pesticide formulations

Sprays

(low-phytotoxicity fungicide sprays)

IT Paraffin oils

RL: MOA (Modifier or additive use); USES (Uses)

(low-phytotoxicity fungicide sprays contg.)

IT 148-79-8, Thiabendazole 1897-45-6, Chlorothalonil 17804-35-2, Benomyl 23564-05-8, Thiophanate-methyl 35554-44-0, Imazalil 36734-19-7, Iprodione 57837-19-1, Metalaxyl 60168-88-9, Fenarimol 60207-90-1, Propiconazole 70630-17-0, Mefenoxam 79983-71-4, Hexaconazole 107534-96-3, Tebuconazole 114369-43-6, Fenbuconazole 131860-33-8, Azoxystrobin 133855-98-8, Epoxiconazole 143390-89-0, Kresoxim-methyl  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(low-phytotoxicity fungicide sprays contg.)

IT 112-53-8, Dodecanol 112-72-1, Tetradecanol

RL: MOA (Modifier or additive use); USES (Uses)

(low-phytotoxicity fungicide sprays contg.)

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD

- (1) Albrecht; US 4078070 1978
- (2) Albreecht; US 4105775 1978
- (3) Aleksejczyk; US 5385750 1995 CAPLUS
- (4) Anon; 1990 CAPLUS
- (5) Backman; Am Rev Phytopathol 1978, P211 CAPLUS
- (6) Backman, P; Phytopathology 1985, V75(10), P1175
- (7) Battershell; US 3290353 1966

- (8) Battershell; US 3869494 1975 CAPLUS
- (9) Bousquet; US 2030093 1936 CAPLUS
- (10) Calpouzos; Fungicides an Advanced Treatise, Chapter 8 1969, P367 CAPLUS
- (11) Faers; US 5389665 1995 CAPLUS
- (12) Frick; US 3833736 1974 CAPLUS .
- (13) Haberle; US 4847285 1989 CAPLUS
- (14) Hasegawa; US 4242356 1980 CAPLUS
- (15) Hasegawa; US 4302467 1981 CAPLUS
- (16) Hasegawa; US 4303668 1981 CAPLUS
- (17) Holm; US 4238219 1980 CAPLUS
- (18) Ishiguri; US 4584309 1986 CAPLUS
- (19) Krenek, M; Pestic Sci Biotechnolo, Proc Int Congr Pestic Chem 1987, P287  
CAPLUS
- (20) Leinen; US 5294640 1994 CAPLUS
- (21) Lewis; US 3778509 1973 CAPLUS
- (22) Long; US 4297258 1981 CAPLUS
- (23) Margossian; US 4785013 1988 CAPLUS
- (24) Mittermeier; US 5250559 1993 CAPLUS
- (25) Murphy; US 4329277 1982 CAPLUS
- (26) Nakagawa; US 4378355 1983
- (27) Sauter; US 5260326 1993 CAPLUS
- (28) Sauter; US 5317027 1994 CAPLUS
- (29) Sauter; US 5399579 1995 CAPLUS
- (30) Sauter; US 5484779 1996 CAPLUS
- (31) Sotel; Phytopathology 1972, V62, P1007
- (32) Steurbaut; Adjuvants and Agrochemicals Chapter 10 1984, V1, P93
- (33) Steurbaut; Med Fac Landbouww, Rijksuniv Gent 1989, P207 CAPLUS
- (34) Tocker; US 4987142 1991 CAPLUS
- (35) Valcke; US 5223524 1993 CAPLUS
- (36) Valcke; US 5397795 1995 CAPLUS
- (37) van Gestel; US 5013746 1991 CAPLUS
- (38) West; US 5009937 1991 CAPLUS
- (39) Wilde; US 4959388 1990 CAPLUS
- (40) Wilde; US 4990342 1991 CAPLUS
- (41) Winston; US 5496568 1996 CAPLUS
- (42) Woods; US 5380484 1995

# REFERENCE 7

AN 135:299954 CA  
 TI Fungicidal compositions comprising methoxyiminoacetamide derivatives.  
 IN Wachendorff-Neumann, Ulrike; Seitz, Thomas; Gayer, Herbert; Heinemann,  
 Ulrich; Krueger, Bernd-Wieland; Kraemer, Wolfgang; Assmann, Lutz  
 PA Bayer A.-G., Germany  
 SO Ger. Offen., 40 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 IC ICM A01N035-10  
 ICS A01N043-653; A01N039-02; A01N059-16; A01N047-10; A01N043-828;  
 A01N043-88  
 CC 5-2 (Agrochemical Bioregulators)  
 FAN.CNT 1

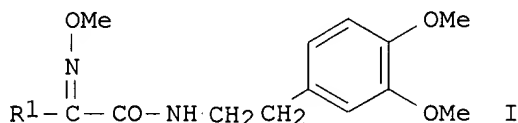
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 10019758	A1	20011025	DE 2000-10019758	20000420
	WO 2001080641	A2	20011101	WO 2001-EP4042	20010409
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,				
	HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,				
	LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,				
	RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,				



VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI DE 2000-10019758 20000420

GI



- AB Fungicidal compns. comprise methoxyiminoacetamide derivs. I (R1 =  
 fluorine-, chlorine-, bromine-, Me-, Et-, Pr- iso-Pr-, Bu-, iso-Bu-,  
 tert-Bu-, methoxy-, ethoxy- or phenoxy-substituted or unsubstituted Ph,  
 2-naphthyl, 1,2,3,4-tetrahydronaphthyl, indanyl, 2-benzofuranyl,  
 2-benzothienyl, 2-thienyl or 2-furanyl) and any of known 58 fungicides.
- ST fungicide methoxyiminoacetamide deriv mixts
- IT Fungicides  
 (compns. comprising methoxyiminoacetamide derivs.)
- IT 133-06-2D, Captan, mixts. with methoxyiminoacetamide derivs. 133-07-3D,  
 Folpet, mixts. with methoxyiminoacetamide derivs. 137-26-8D, Thiram,  
 mixts. with methoxyiminoacetamide derivs. 731-27-1D, mixts. with  
 methoxyiminoacetamide derivs. 1085-98-9D, mixts. with  
 methoxyiminoacetamide derivs. 1897-45-6D, Chlorothalonil, mixts. with  
 methoxyiminoacetamide derivs. 8018-01-7D, Mancozeb, mixts. with  
 methoxyiminoacetamide derivs. 12071-83-9D, Propineb, mixts. with  
 methoxyiminoacetamide derivs. 12122-67-7D, Zineb, mixts. with  
 methoxyiminoacetamide derivs. 12427-38-2D, Maneb, mixts. with  
 methoxyiminoacetamide derivs. 13598-36-2D, Phosphonic acid, mixts. with  
 methoxyiminoacetamide derivs. 24579-73-5D, Propamocarb, mixts. with  
 methoxyiminoacetamide derivs. 32809-16-8D, Procymidone, mixts. with  
 methoxyiminoacetamide derivs. 36734-19-7D, Iprodione, mixts. with  
 methoxyiminoacetamide derivs. 39148-24-8D, Fosetyl-Al, mixts. with  
 methoxyiminoacetamide derivs. 53112-28-0D, mixts. with  
 methoxyiminoacetamide derivs. 57837-19-1D, Metalaxyl, mixts. with  
 methoxyiminoacetamide derivs. 57966-95-7D, Cymoxanil, mixts. with  
 methoxyiminoacetamide derivs. 60207-90-1D, Propiconazole, mixts. with  
 methoxyiminoacetamide derivs. 66246-88-6D, Penconazole, mixts. with  
 methoxyiminoacetamide derivs. 67747-09-5D, Prochloraz, mixts. with  
 methoxyiminoacetamide derivs. 70630-17-0D, Metalaxyl M, mixts. with  
 methoxyiminoacetamide derivs. 71626-11-4D, Benalaxyl, mixts. with  
 methoxyiminoacetamide derivs. 77732-09-3D, Oxadixyl, mixts. with  
 methoxyiminoacetamide derivs. 79622-59-6D, Fluazinam, mixts. with  
 methoxyiminoacetamide derivs. 79983-71-4D, Hexaconazole, mixts. with  
 methoxyiminoacetamide derivs. 85509-19-9D, Flusilazole, mixts. with  
 methoxyiminoacetamide derivs. 87130-20-9D, Diethofencarb, mixts. with  
 methoxyiminoacetamide derivs. 88671-89-0D, Myclobutanil, mixts. with  
 methoxyiminoacetamide derivs. 94361-06-5D, Cyproconazole, mixts. with  
 methoxyiminoacetamide derivs. 104030-54-8D, Carpropamid, mixts. with  
 methoxyiminoacetamide derivs. 107534-96-3D, Tebuconazole, mixts. with  
 methoxyiminoacetamide derivs. 110488-70-5D, Dimethomorph, mixts. with  
 methoxyiminoacetamide derivs. 112281-77-3D, Tetraconazole, mixts. with  
 methoxyiminoacetamide derivs. 114369-43-6D, Fenbuconazole, mixts. with  
 methoxyiminoacetamide derivs. 117428-22-5D, Picoxystrobin, mixts. with  
 methoxyiminoacetamide derivs. 118134-30-8D, Spiroxamine, mixts. with  
 methoxyiminoacetamide derivs. 119446-68-3D, Difenoconazole, mixts. with  
 methoxyiminoacetamide derivs. 120116-88-3D, Cyamidazosulfamid, mixts.

with methoxyiminoacetamide derivs. 121552-61-2D, mixts. with  
methoxyiminoacetamide derivs. 124495-18-7D, Quinoxifen, mixts. with  
methoxyiminoacetamide derivs. 126833-17-8D, Fenhexamid, mixts. with  
methoxyiminoacetamide derivs. 131341-86-1D, Fludioxonil, mixts. with  
methoxyiminoacetamide derivs. 131752-26-6D, mixts. with  
methoxyiminoacetamide derivs. 131807-57-3D, Famoxadone, mixts. with  
methoxyiminoacetamide derivs. 131860-33-8D, Azoxystrobin, mixts. with  
methoxyiminoacetamide derivs. 133855-98-8D, Epoxiconazole, mixts. with  
methoxyiminoacetamide derivs. 135158-54-2D, Acibenzolar-S-methyl, mixts.  
with methoxyiminoacetamide derivs. 138261-41-3D, Imidacloprid, mixts.  
with methoxyiminoacetamide derivs. 140923-17-7D, Iprovalicarb, mixts.  
with methoxyiminoacetamide derivs. 141517-21-7D, Trifloxystrobin, mixts.  
with methoxyiminoacetamide derivs. 143390-89-0D, Kresoxim-methyl, mixts.  
with methoxyiminoacetamide derivs. 149708-54-3D, mixts. with  
methoxyiminoacetamide derivs. 156052-68-5D, Zoxamide, mixts. with  
methoxyiminoacetamide derivs. 161326-34-7D, Fenamidone, mixts. with  
methoxyiminoacetamide derivs. 162650-77-3D, Ethaboxam, mixts. with  
methoxyiminoacetamide derivs. 172524-76-4D, mixts. with  
methoxyiminoacetamide derivs. 172719-88-9D, mixts. with  
methoxyiminoacetamide derivs. 175013-18-0D, mixts. with  
methoxyiminoacetamide derivs. 178928-70-6D, mixts. with  
methoxyiminoacetamide derivs. 181624-76-0D, mixts. contg.  
181627-13-4D, mixts. contg. 184870-42-6D, mixts. with  
methoxyiminoacetamide derivs. 185336-79-2D, mixts. with  
methoxyiminoacetamide derivs. 188027-78-3D, mixts. with  
methoxyiminoacetamide derivs. 188425-85-6D, mixts. with  
methoxyiminoacetamide derivs. 189892-69-1D, mixts. with  
methoxyiminoacetamide derivs. 193740-76-0D, mixts. with  
methoxyiminoacetamide derivs. 198758-59-7D, mixts. with  
methoxyiminoacetamide derivs. 251579-08-5D, mixts. with  
methoxyiminoacetamide derivs. 345206-00-0D, mixts. with  
methoxyiminoacetamide derivs. 367262-88-2D, mixts. contg.  
367262-94-0D, mixts. contg. 367262-97-3D, mixts. contg. 367263-03-4D,  
mixts. contg.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(fungicidal compns.)

#### REFERENCE 8

AN 135:299774 CA  
TI Physiological Effects of Azoxystrobin and Epoxiconazole on Senescence and  
the Oxidative Status of Wheat  
AU Wu, Yue-Xuan; von Tiedemann, Andreas  
CS Department of Phytomedicine, Faculty of Agriculture, University of  
Rostock, Rostock, 18051, Germany  
SO Pestic. Biochem. Physiol. (2001), 71(1), 1-10  
CODEN: PCBPBS; ISSN: 0048-3575  
PB Academic Press  
DT Journal  
LA English  
CC 4-4 (Toxicology)  
Section cross-reference(s): 11  
AB The impact of 2 fungicides, azoxystrobin and Epoxiconazole, on the  
senescence process of spring wheat (*Triticum aestivum* L. cv. Nandu) grown  
under greenhouse conditions until maturity was investigated. The  
senescence process could be well described by the decrease in total leaf  
protein content and the increase in electrolyte leakage from leaf tissue.  
The changes in these 2 senescence factors coincided with an increase in  
the level of superoxide (O.cntdot.-2) and a decrease in the activity of  
the antioxidant enzyme superoxide dismutase (SOD) during senescence. The  
senescence was significantly delayed by application of azoxystrobin and  
Epoxiconazole, which induced an increase in total SOD activity and a redn.

of O.cntdot.-2 levels, particularly at mature growth stages. The activity of peroxidase in fungicide-treated plants was .apprx.2 times higher in flag leaves and 3-4 times higher in f-1 leaves than in untreated plants. Addnl., levels of H2O2 were significantly elevated in fungicide-treated plants. Paraquat induced a substantial increase in O.cntdot.-2 prodn. at growth stages later than GS 65/69, being much delayed and reduced by azoxystrobin and Epoxiconazole. At later growth stages (GS 59/61), azoxystrobin and Epoxiconazole showed similar effects in delaying the senescence of wheat plants, but azoxystrobin was more efficient when applied at early growth stages (GS 31/32). The results suggest that the fungicide-induced delay of senescence is due to an enhanced antioxidative potential protecting the plants from harmful active oxygen species. Thus, ethylene redn. may not be the primary mechanism by which strobilurins or triazoles interfere with the senescence process, as previously suggested, but may be rather a consequence of reduced oxidative stress in the plant tissue. Elevated levels of H2O2 possibly play a key role as second messengers in inducing the expression of antioxidant genes in the fungicide-treated plants. (c) 2001 Academic Press.

- ST wheat senescence oxidative stress azoxystrobin Epoxiconazole; Triticum  
senescence oxidative stress fungicide
- IT Growth and development, plant  
Protein degradation  
(physiol. effects of azoxystrobin and Epoxiconazole on growth and  
oxidative status of wheat)
- IT Fungicides  
Oxidative stress, biological  
Senescence, plant  
Wheat  
(physiol. effects of azoxystrobin and Epoxiconazole on senescence and  
oxidative status of wheat)
- IT 4685-14-7, Paraquat 131860-33-8, Azoxystrobin 133855-98-8,  
Epoxiconazole  
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)  
(physiol. effects of azoxystrobin and Epoxiconazole on senescence and  
oxidative status of wheat)
- IT 9003-99-0, Peroxidase 9054-89-1, Superoxide dismutase  
RL: BAC (Biological activity or effector, except adverse); BIOL  
(Biological study)  
(physiol. effects of azoxystrobin and Epoxiconazole on senescence and  
oxidative status of wheat)
- IT 7722-84-1, Hydrogen peroxide, biological studies 11062-77-4, Superoxide  
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)  
(physiol. effects of azoxystrobin and Epoxiconazole on senescence and  
oxidative status of wheat)

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD

- (1) Anke, T; Can J Bot 1995, V73(Suppl 1), PS940
- (2) Bollmark, M; Physiol Plant 1990, V80, P534 CAPLUS
- (3) Bradford, M; Anal Biochem 1976, V72, P248 CAPLUS
- (4) Buchenauer, H; Modern Selective Fungicides: Properties, Application,  
Mechanisms of Action 1995, P259
- (5) Delaunay, A; EMBO J 2000, V19, P5157 CAPLUS
- (6) Delp, C; Modern Selective Fungicides: Properties, Application, Mechanisms  
of Action 1995, P295
- (7) Drolet, G; Phytochemistry 1986, V25, P367 CAPLUS
- (8) Elstner, E; Methods of Enzymatic Analysis 1983, V3, P293 CAPLUS
- (9) Fright, S; Annu Rev Phytopathol 1997, V35, P349
- (10) Grossman, K; Pestic Sci 1997, V50, P11
- (11) Hillman, J; Proc R Soc Edinburgh 1994, V102B, P447
- (12) Kuge, S; EMBO J 1994, V13, P655 CAPLUS
- (13) Lacan, D; Planta 1998, V204, P377 CAPLUS
- (14) Leshem, Y; Free Radicals Biol Med 1988, V5, P39 CAPLUS
- (15) Lin, J; Biol Plant 2000, V43, P141 CAPLUS

- (16) Lin, J; Bot Bull Acad Sinica 1998, V39, P161 CAPLUS  
 (17) Lyr, H; Modern Selective Fungicides: Properties, Application, Mechanisms of Action 1995, P13  
 (18) Masia, A; Physiol Plant 1998, V104, P668 CAPLUS  
 (19) Matters, G; Biochem Biophys Acta 1986, V882, P29 CAPLUS  
 (20) McRae, D; Planta 1983, V158, P185 CAPLUS  
 (21) Mercer, P; Test Agrochem Cultiv 1998, V19, P24 CAPLUS  
 (22) Merzlyak, M; Proc R Soc Edinburgh 1994, V102B, P459  
 (23) Pastori, G; Plant Physiol 1997, V113, P411 CAPLUS  
 (24) Pell, E; Response of Plants to Multiple Stresses 1991, P189  
 (25) Pellissier, M; Phytopathology 1972, V62, P580 CAPLUS  
 (26) Preston, C; Plant Physiol 1992, V100, P630 CAPLUS  
 (27) Rogiers, S; Ann Bot 1998, V81, P203 CAPLUS  
 (28) Scandalios, J; Plant Physiol 1993, V101, P7 CAPLUS  
 (29) Senaratna, T; J Plant Physiol 1988, V133, P56 CAPLUS  
 (30) Thompson, J; New Phytol 1987, V105, P317 CAPLUS  
 (31) Tiedemann, A; Physiol Mol Plant Pathol 1994, V45, P153 CAPLUS  
 (32) Tiedemann, A; Physiol Mol Plant Pathol 1997, V50, P151 CAPLUS  
 (33) Tottman, D; Ann Appl Biol 1987, V110, P441  
 (34) Trippi, V; Plant Cell Physiol 1985, V26, P1303 CAPLUS  
 (35) Trippi, V; Plant Cell Physiol 1989, V30, P157 CAPLUS  
 (36) Wang, A; Plant Physiol Commun 1990, V6, P55  
 (37) Wu, Y; Environ Poll in press  
 (38) Wu, Y; Hybrid Rice 1992, V6, P36  
 (39) Ypema, H; Plant Disease 1999, V83, P4 CAPLUS  
 (40) Zheng, M; Biochem Pharmacol 2000, V59, P1 CAPLUS

REFERENCE 9

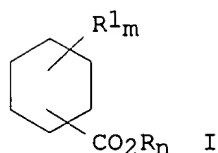
AN 135:238069 CA  
 TI Pesticide formulations containing cyclohexanepolycarboxylic acid esters  
 IN Kober, Reiner; Bratz, Matthias; Berghaus, Rainer; Breitscheidel, Boris  
 PA BASF Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 38 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 IC ICM A01N025-04  
 ICS A01N025-02; A01N043-84  
 CC 5-4 (Agrochemical Bioregulators)  
 Section cross-reference(s): 24

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001067860	A1	20010920	WO 2001-EP2764	20010312
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRAI DE 2000-10012161 20000313

GI



AB The title formulation contains in relation to the total wt. of the formulation: (a) 20-99.9 % by wt. cyclohexanepolycarboxylic acid ester I (R1 = C1-C10 alkyl or C3-C8 cycloalkyl; m = 0, 1, 2 or 3; n = 2, 3 or 4; R = H or C1-C30 alkyl); (b) 0-70 % water; (c) 0.1-60 % auxiliary agent and/or additive; (d) 0-70 % active ingredient. The alc. component of cyclohexane-1,2-dicarboxylic acid diisononyl ester is prepd. by butene dimerization, followed by hydroformylation and hydrogenation.

ST pesticide formulations cyclohexanepolycarboxylic acid esters

IT Pesticide formulations  
(pesticide formulations contg. cyclohexanepolycarboxylic acid esters)

IT 67564-91-4, Fenpropimorph 133855-98-8  
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(pesticide formulations contg. cyclohexanepolycarboxylic acid esters)

IT 1687-30-5D, Cyclohexane-1,2-dicarboxylic acid, diesters 84731-64-6,  
Cyclohexane-1,2-dicarboxylic acid diisodecyl ester 166412-78-8,  
Cyclohexane-1,2-dicarboxylic acid diisononyl ester 192728-83-9,  
Cyclohexane-1,2-dicarboxylic acid diisoheptyl ester 228853-14-3  
RL: MOA (Modifier or additive use); USES (Uses)  
(pesticide formulations contg. cyclohexanepolycarboxylic acid esters)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

(1) Basf Ag; DE 19701123 A 1997 CAPLUS  
(2) Breitscheidel, B; WO 9932427 A 1999 CAPLUS  
(3) New Japan Chem Co Ltd; WO 9721792 A 1997 CAPLUS  
(4) Schoenherr, J; EP 0579052 A 1994 CAPLUS

#### REFERENCE 10

AN 135:222738 CA  
TI Cereal head blight disease, mycotoxins and fungicide treatments  
AU Ioos, Renaud; Faure, Alain  
CS LNPV, Laboratoire national de la protection des vegetaux, Unite de Mycologie Agricole et Forestiere, Nancy, 54043, Fr.  
SO Phytoma (2001), 539, 56-63  
CODEN: PYTOAU; ISSN: 0370-2723